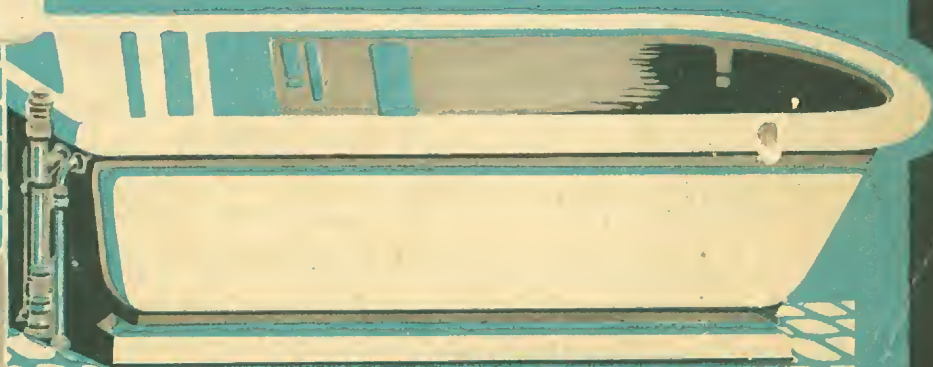


Economy *in* Plumbing

Comfort and Convenience
for the whole family:

The simple, easy way
to have running water
in your home



Montgomery Ward & Co.

Satisfaction Guaranteed or Your Money Back

CHICAGO

NEW YORK

KANSAS CITY

FORT WORTH

PORTLAND

Michael Jackson

Our Guarantee

IT is our intention that every article illustrated or priced in this book will reach you precisely as described, and in perfect condition, and give entire satisfaction.

You cannot make any mistake in sending us your order for we absolutely guarantee satisfaction in every detail. Unless you are fully satisfied with the goods, and with the saving that you have effected in your purchase, you may feel at liberty to return them at our expense. Not only will we refund the money you send us, but also we will gladly reimburse you for the transportation charges that you have paid.

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Write your orders or letters to us in any way and in any language. Don't be afraid you will make a mistake. We will readily understand what you want. Our printed order blanks help you in making up your order. We want you to always have a supply of these blanks on hand. If you run out, just say, "Send more order blanks." If you have no order blanks, write on any piece of paper.

You can send money by your Personal Check, if you have a bank account; by

Post Office Money Order; Express Money Order; Bank Draft; or Cash, by Registered Letter. If you live on a rural route and desire to send Post Office Money Order, your letter carrier will buy the money order for you and will enclose and mail it to us with your letter. Simply give him the money and your letter. He will do the rest. You need not go to the Post Office. We will guarantee the safe arrival of money sent in any of the above ways.

Montgomery Ward & Co.
Satisfaction Guaranteed or Your Money Back
NEW YORK CITY

New York Chicago Kansas City
Fort Worth Portland





THE LOW-COST INDOOR CLOSET OUTFIT

Windsor Indoor Chemical Closet

\$15.75
Complete

Can be placed in
any building.

No tools necessary.

No piping.

No running water.

No odor or conta-
gion.

Yields more com-
fort to families with-
out bathrooms than
any other purchase
of similar price.

81T6440—A real comfort and convenience for the family whose home is not equipped with a bathroom. Strictly sanitary and odorless. Eliminates all danger of typhoid and contaminated well water from nearby outhouses. No pipes or running water needed. No plumbing work—just set it in place, extend the vent-pipe and the job is done.

Attractively gray-enameled steel case with tight-closing, removable cover. Nickel-plated hinges and knob. Mahogany finished wood seat. Removable galvanized inner container. Constant ventilation is provided from holes at bottom of case through vent-pipe—an advantage not to be had with even the regular water closets. No disagreeable odor at any time.

A charge of an improved liquid chemical is mixed with 2 gallons of water and placed in container each time after it is emptied (about every two weeks). Contents may be emptied on ground or buried. The chemical kills all germ life, rendering contents of container odorless and harmless.

Furnished with seven 15-inch lengths of 3-inch, gray-enameled vent-pipe, two elbows, and a 6x3-inch collar, to connect with chimney. Can also be vented into stove pipe or through roof. We include 1-gallon can of liquid chemical—enough to last about 4 to 6 months, and a toilet-paper holder with paper.

Easily set up by anyone in a few minutes, without any tools. Can be placed on any floor in the house—in a closet, under stairs, in halls, bedrooms, etc. May be concealed by a screen, or enclosed by a partition made of wallboard, etc. Takes floor space of only about 18 inches square. Height, about 20 inches. **\$15.75**

Shipping weight, 60 pounds. Price.....

Extra Chemical and Toilet Paper

81T6441—Sufficient for 4 or 5 months. In one-gallon tin can. Keeps closet sanitary and odorless. Shipping weight, 10 pounds. Price.....**\$1.75**

57T6537—Tissue Toilet Paper in rolls, to fit our holder. Readily dissolved by the chemical. Shipping weight, 3 pounds. Six rolls**30c**

Montgomery Ward Co. New York City
Satisfaction Guaranteed or Your Money Back

New York

Fort Worth

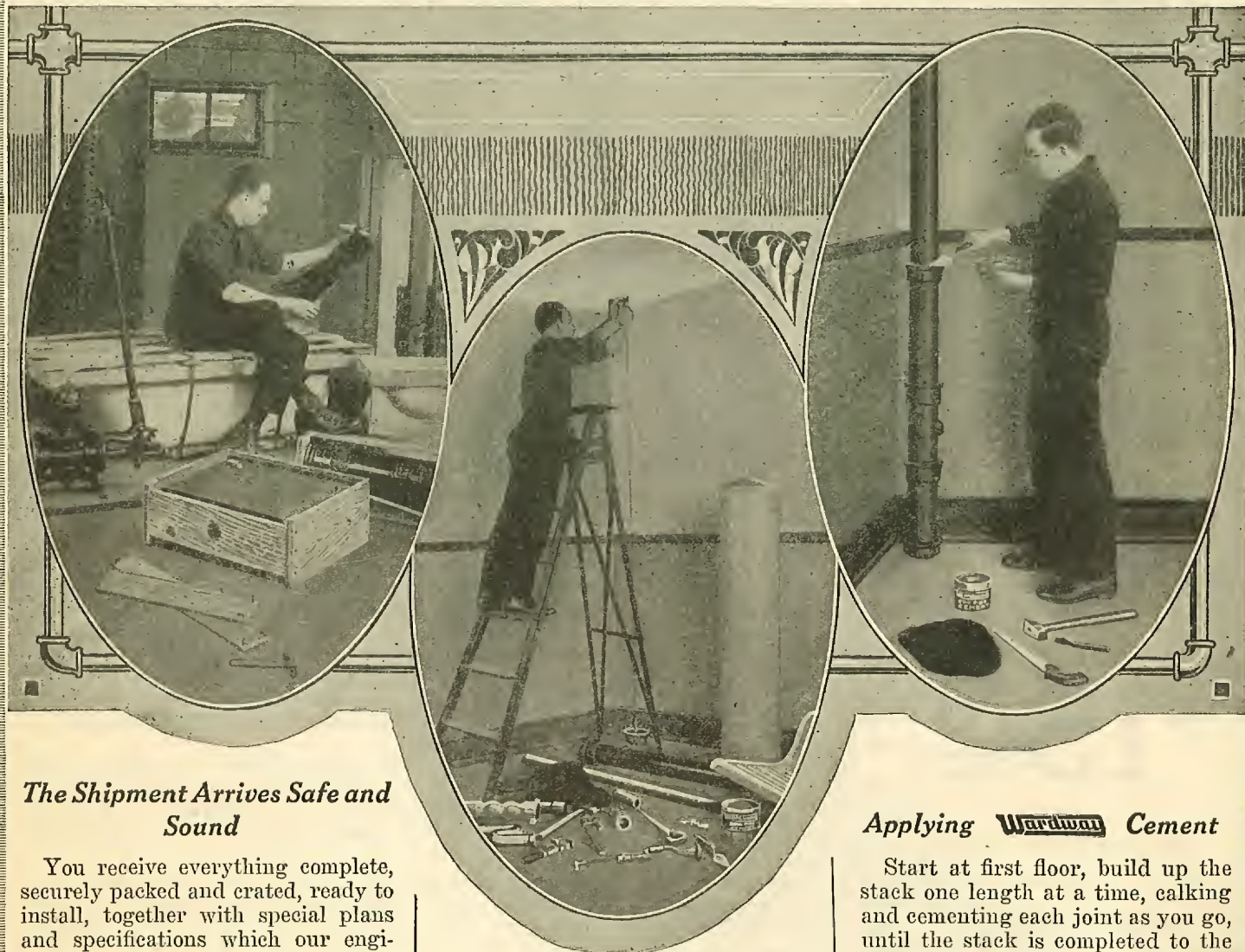
Chicago

Portland

Kansas City



Put In Your Own Plumbing—Make the Greatest Possible Saving



The Shipment Arrives Safe and Sound

You receive everything complete, securely packed and crated, ready to install, together with special plans and specifications which our engineers have drawn up for your own needs.

The plans are very simple and easy to follow. By filling out our estimate blank, such as inserted in this catalogue, and sending it to us, you will enable us to give you an estimate and plans for plumbing system that will give you life-long satisfaction at a big saving. We promise it.

All the difficult planning we do for you. There is nothing for you to do but cut pipe as required and connect up the various fittings. Not only hundreds, but thousands of customers have done it. You can do it.

Marking for Soil Pipe

Your plans will show you where the soil pipe stack is to be erected.

Cut a round hole in the first floor and drop one length of soil pipe so that the hub of soil pipe rests on the floor as shown above.

Then by means of plumb bob, find point on ceiling directly above where to cut hole for the extension of soil pipe up through the roof. Do the same for the second floor and above.

Then follow plans and, if necessary, cut pipe to fit from basement to roof.

Applying Wardway Cement

Start at first floor, build up the stack one length at a time, calking and cementing each joint as you go, until the stack is completed to the second floor. Brace temporarily with 2x4 lumber.

As you will notice, one end of the soil pipe fits in the hub of the other soil pipe. In this hub, by means of hammer and chisel, tightly pack oakum until the hub is about two-thirds full. Then fill the remaining space with our Wardway Soil-Pipe-Cement as directed on can, using the small trowel we furnish.

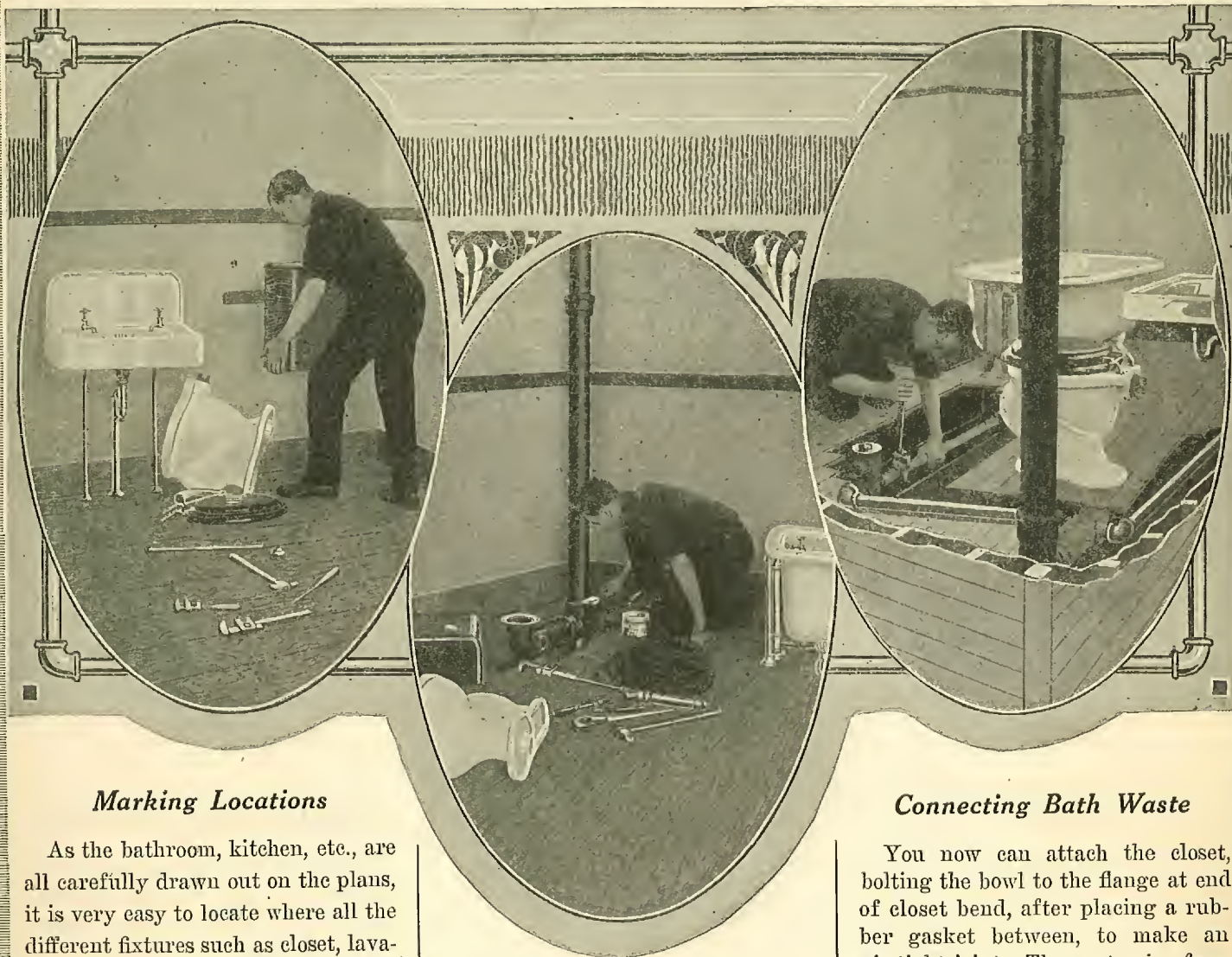
This cement becomes almost as hard as iron in a very short time, making a permanent joint at a great saving in time and expense as compared with a lead-calked joint.

Into the soil pipe stack the closet, lavatory and bath tub waste is discharged. It connects with the sewer or drainage system.

Montgomery Ward & Co.



The Work is Easy and Very Interesting



Marking Locations

As the bathroom, kitchen, etc., are all carefully drawn out on the plans, it is very easy to locate where all the different fixtures such as closet, lavatory, bath tub, etc., are located.

The closet and lavatory are very easily fastened to the wall by means of concealed brackets.

As you will notice, the fixtures are kept as close to the soil pipe stack as possible. After having the different bathroom fixtures erected, you are ready to install pipe connections. The illustration shows the closet tank being hung temporarily to mark for position.

Attaching Closet Bend

Having erected the soil pipe and cemented it as far as the second floor, you are then ready to cement the tapped closet bend into the sanitary tee placed in the soil pipe stack at this point.

The pipe waste connections from the bath tub and lavatory are very easily screwed into the threaded side openings of the closet bend.

Cement the remaining part of the stack up to the roof. Be sure, however, that in the meanwhile the stack is kept perpendicular and rigid.

Connecting Bath Waste

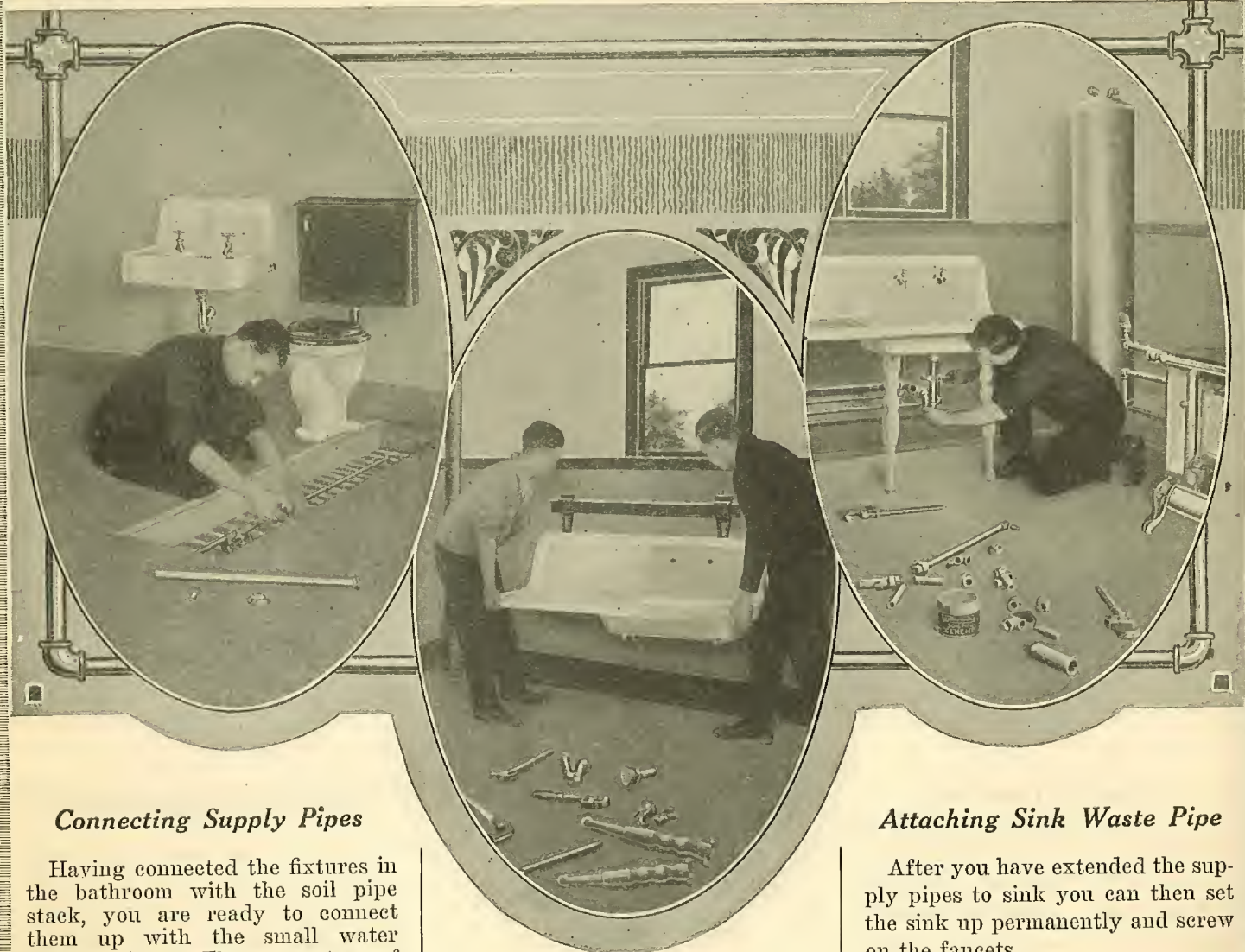
You now can attach the closet, bolting the bowl to the flange at end of closet bend, after placing a rubber gasket between, to make an air-tight joint. The waste pipe from the bath tub runs down under the floor, same as the closet waste.

There is a drum-trap between the bath tub and soil pipe stack as shown. This is easily connected up with regular pipe by means of a pipe wrench.

The waste pipe from the lavatory runs over to the soil pipe and is connected up in the same manner. You will be surprised how easy it is to connect these pipes and how short a time you can do it in.



\$150⁰⁰ Worth of Plumbing Makes Home Worth \$500⁰⁰ More



Connecting Supply Pipes

Having connected the fixtures in the bathroom with the soil pipe stack, you are ready to connect them up with the small water supply pipes. There are two of these small supply pipes, one for hot and the other for cold water.

Your plans will show you just where they are to run. Remove the flooring from above where pipes are to go, cutting and threading pipe to fit. The work becomes so fascinating that it affords real recreation.

By means of fittings we supply and the small hand pipe wrench, connect these pipes and run them over to where they are to branch off for hot and cold supply, as shown by instructions and plans.

Connecting Sink

Having connected all your bathroom fixtures then you are ready to connect the supply pipes with pipes from the first floor. Look over your plans and notice where the kitchen sink and range boiler are to be located.

The sink fits on concealed wall hangers and it is a very simple matter to attach the sink to the wall.

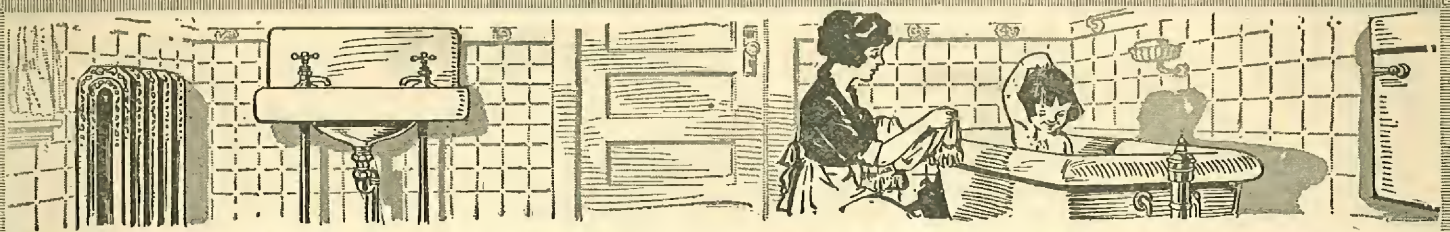
You can now easily connect the waste and supply pipes and run them over to where main soil and water supply pipe is to run, as shown by the plans we furnish you.

Attaching Sink Waste Pipe

After you have extended the supply pipes to sink you can then set the sink up permanently and screw on the faucets.

Find the exact position of the range boiler so that the pipes on the side can be readily connected up with the water front in the stove, and also extend the pipes from top of range boiler ready to connect with main supply pipe which will be erected later.

The stove or heater heats the water in the range boiler and causes it to circulate between the boiler and stove until the entire boiler is full of hot water. This maintains a supply of hot water to all the fixtures.



Bankers Loan More Money On Homes With Plumbing



Connecting Range Boiler

The water front, which you either already have in the stove, or which is attached to many stoves you can purchase from us, is a small cast iron fixture next to the fire through which the water circulates, is heated and goes back again to the range boiler.

Be sure you cut the pipe the right length for the proper distance between the stove and range boiler. Connecting up the pipe is then a very simple matter.

You are now ready to connect up the fixtures in the basement to the soil pipe stack as well as to supply pipes.



Joining Laundry Waste to Stack

Following your plans step by step you can next place the laundry tub in the proper location and attach waste trap and waste pipes to tapped T-branch in soil pipe.

This T-branch has already been placed in the soil pipe stack just above the basement floor to receive the iron pipe waste connection from laundry tub.

Make certain in all cases that you cut pipes to proper length to fit, as shown on plans we furnish.

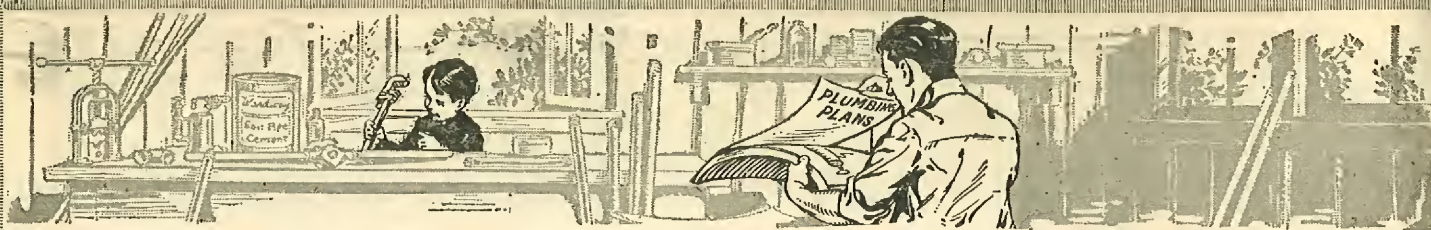


Attaching Tub Supply Pipes

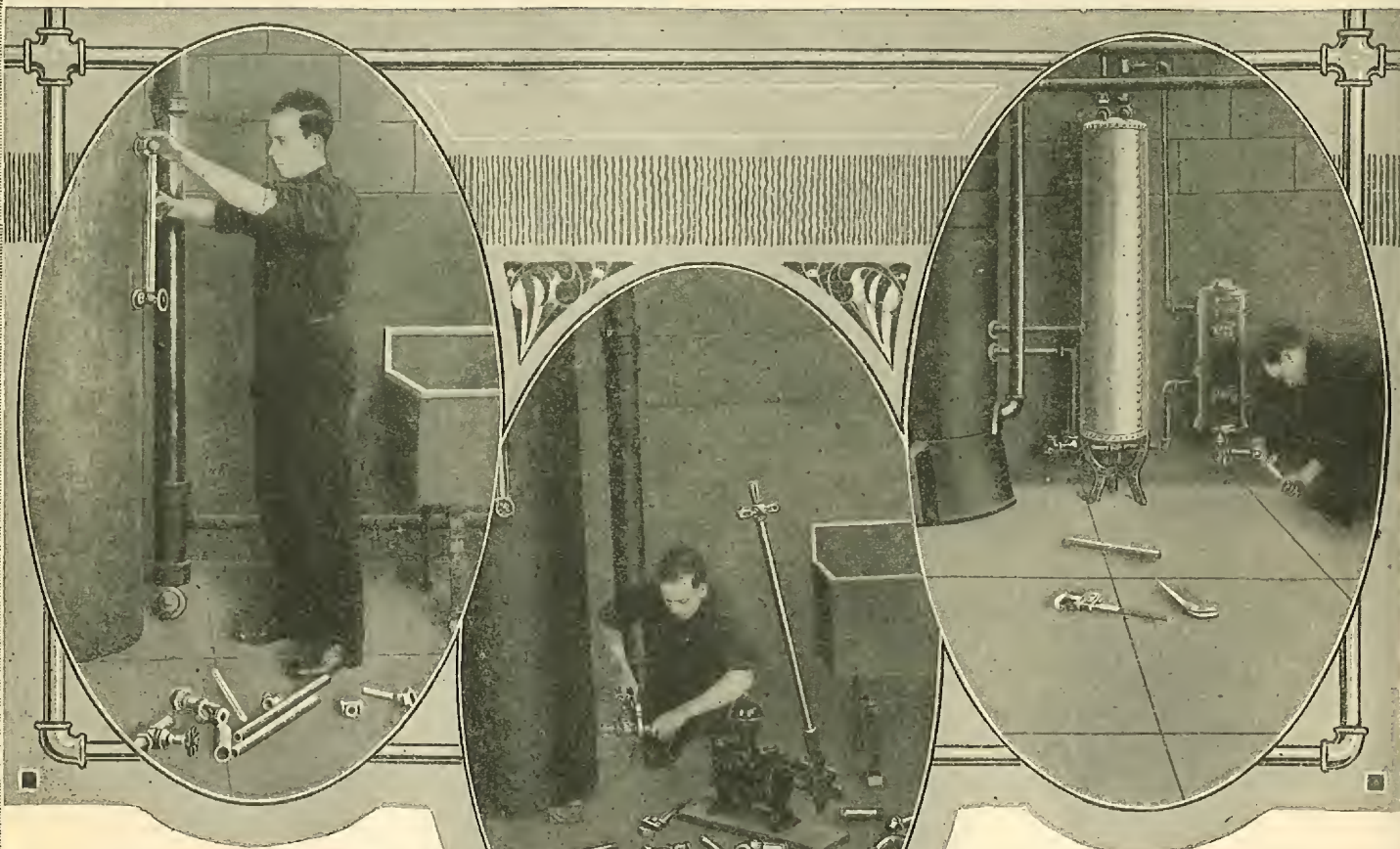
You will have noticed that you have only needed one soil pipe stack, as the fixtures were placed to conveniently attach to this stack.

In some systems it is necessary to have one large stack for closet and another smaller one for other fixtures as they are placed too far apart for one stack. For this particular system, however, only one stack is required, since fixtures are grouped closely together.

You next attach the supply pipes to the laundry tub, following the plans to get the exact length. Extend the supply pipes up to first floor along where the main supply pipe is to go as per instructions furnished. Now you are ready to connect up the main water supply system.



You Can't Go Wrong with the Plans We Furnish



Installing Supply Tank

The kind of water supply you may have or need depends upon the facilities in your neighborhood. If you have a city water supply or access to it, you will not need a water supply system of your own, unless you wish a separate soft water supply.

However, the country home needs a special water supply system. In many cases, two systems—one for hard and one for soft water. Often times we furnish a single soft water supply system—it all depends on your own requirements and the kind of water you have available.

The cost is very small and when you consider that you can have both running soft and hard water on the farm to all fixtures in the house and barn, it is a convenience not to be sacrificed.

Connecting Force Pump

Your plans will show you where to place the force pump, so that you will be close to the source of water supply, and how to make all connections.

Next to this pump set the steel pneumatic pressure tank and connect up with the pump. Attach the water gauge on the side of the tank. This shows you how much water you have in the tank at all times.

Next run a supply pipe from the tank to the first floor as your plans show and you are now ready to connect up all the other supply pipes with the main supply pipe.

Attaching Gas Heater

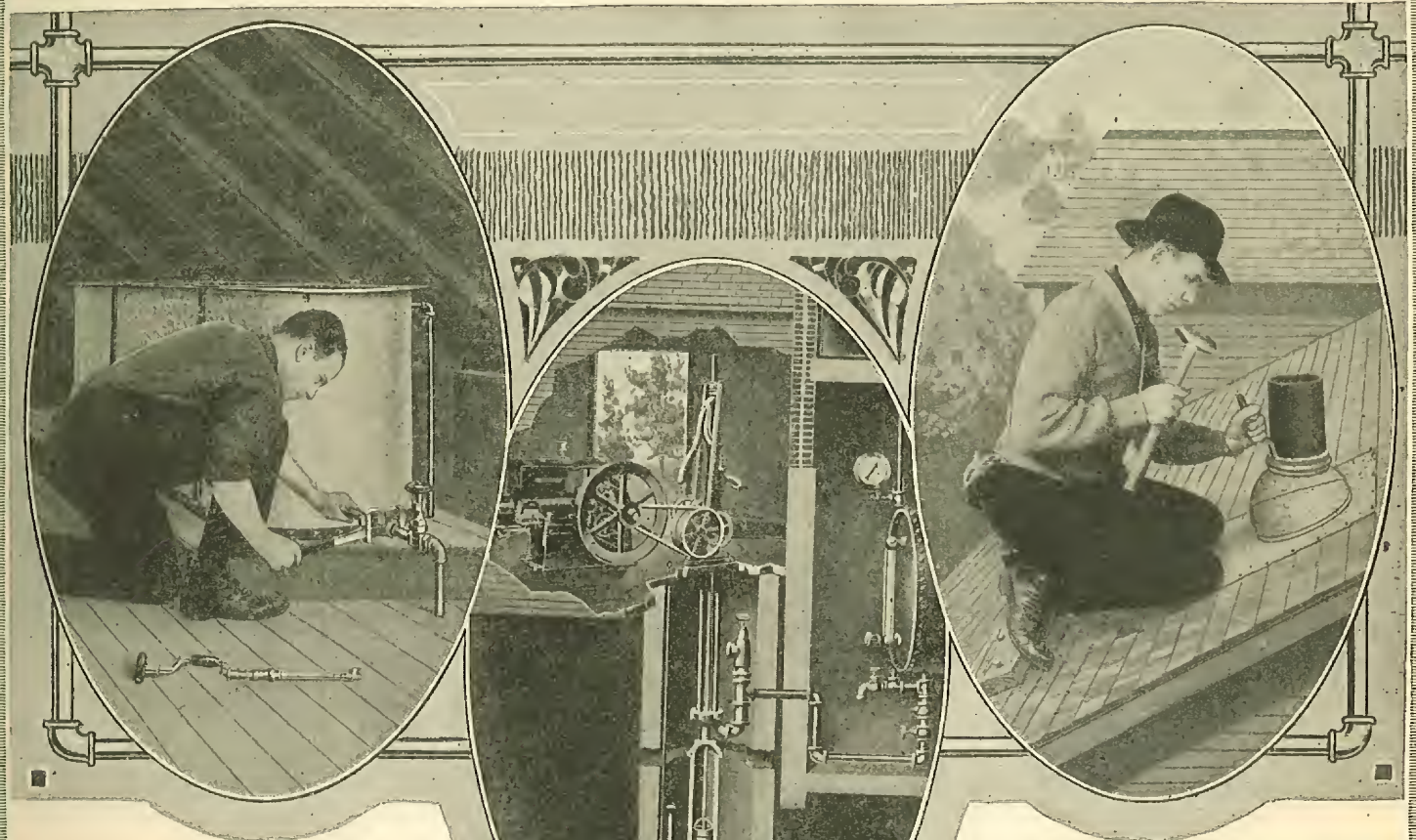
You may prefer the range boiler in the basement either because you do not wish to connect it up with the kitchen stove or you may think that it is somewhat unsightly in the kitchen.

Then again you may wish to attach a gas heater to the range boiler or you may wish to attach the range boiler to a laundry stove in the basement, or to your furnace.

It makes no difference as far as the water supply is concerned where the range boiler is placed and in cases where your kitchen is a little crowded, it is sometimes the best idea to place the range boiler in the basement. In any case, our plans show where to erect it for the best service thereby resulting in complete satisfaction to you.



No Need to Buy Tools—We Loan Them



Connecting Storage Tank

If your needs are small and you use very little soft water, an attic storage tank will give you very satisfactory water supply. Instead of connecting up your force pump with a pneumatic tank in the basement, you merely extend the supply pipe from the pump to the tank in the attic and make connection to the bottom of the tank as shown.

An overflow pipe is always supplied so that you can tell when the tank is full. Ten to fifteen minutes easy pumping keeps the tank filled every day.

This tank may also be used in connection with a small kitchen sink force pump, forcing water up from cistern. For small systems only, however.

Engine Driven System

If you wish to have running water in the barn and pasture for the stock, etc., as well as in the home, one of our large, yet inexpensive power-driven outfits is just the thing.

Our windmill force-pump supply systems and our gasoline engine-driven supply systems are both very popular in all parts of the country.

If you can obtain electricity, our electrical-driven outfit is a very excellent system as it automatically keeps the supply tank filled.

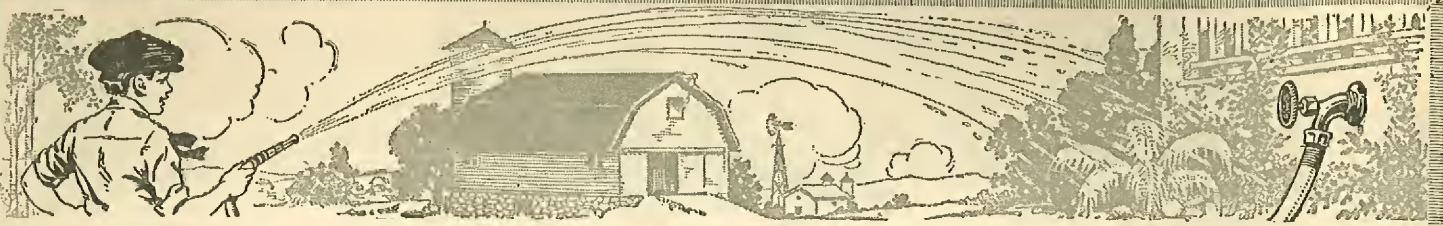
Our plans will be arranged to include any of these outfits if you so desire.

Attaching Roof Flange

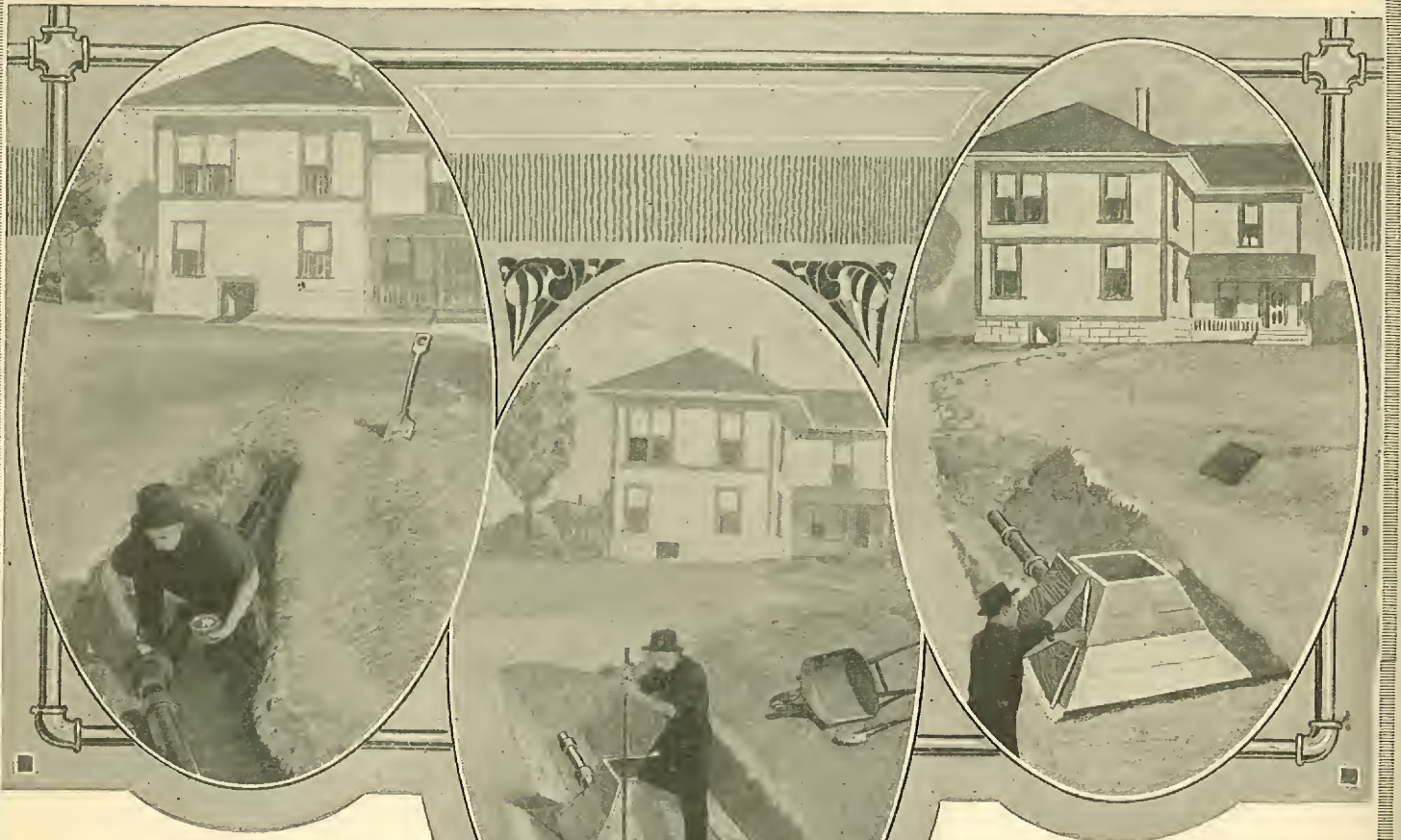
Having the complete system connected and installed on the inside, you are now ready for the finishing outside touches. The soil pipe is already extended up through a hole in the roof with a 5-inch increaser at end, and is extended through the basement for connection outside of wall with the sewer or septic-tank, which will be described later.

In order to keep the rain water from leaking through the hole in the roof, our adjustable roof flange should always be used. This fits closely over the soil pipe stack and the joint is made water-tight by calking the lead collar as shown. Can be adjusted to fit any angle roof.

It is a good idea to make certain that it is tight after you have it adjusted by pouring a pail of water around the edges.



Septic Tanks for Country Homes are Equal to City Sewers



Laying Sewer Pipe

If you can make connections with city sewer, all that is necessary to finish the system is to provide a trench to the sewer connection and use either regular tile or our cast iron soil pipe, as preferred.

For country homes the cess pool and septic tank is recommended. Pick a suitable location a fair distance from the house and dig a trench about 3 or 4 feet deep to this location, pitching slightly downward. Then lay either regular 4-inch tile or iron soil pipe, using our special cement for soil pipe joints. Either tile or soil pipe will give satisfaction, although soil pipe is preferable and more durable.

Our special plans give complete directions for constructing septic tank, etc. This is the best, most thorough elimination system for the country home.

Constructing Catch Basin

This ideal system of sewage disposal consists of three parts. They are: the catch basin, the septic tank, and the nitrification bed. A cross section shown on another page gives the idea.

The catch basin receives the waste water from the sink and laundry tubs. Its chief purpose is to separate the grease from the waste coming from sink. It allows the grease to rise to the top so that it can be easily removed at intervals, by means of a bucket and rope. If the grease were not removed it would interfere with the action of the bacteria in the septic tank.

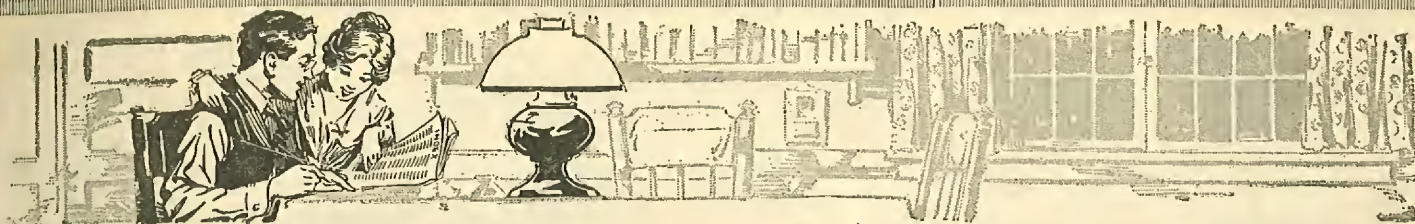
The catch basin, as well as the septic tank, is of concrete construction. Very simple to build, as we furnish free of charge, complete plans and instructions with every outfit, when requested.

Removing Basin Forms

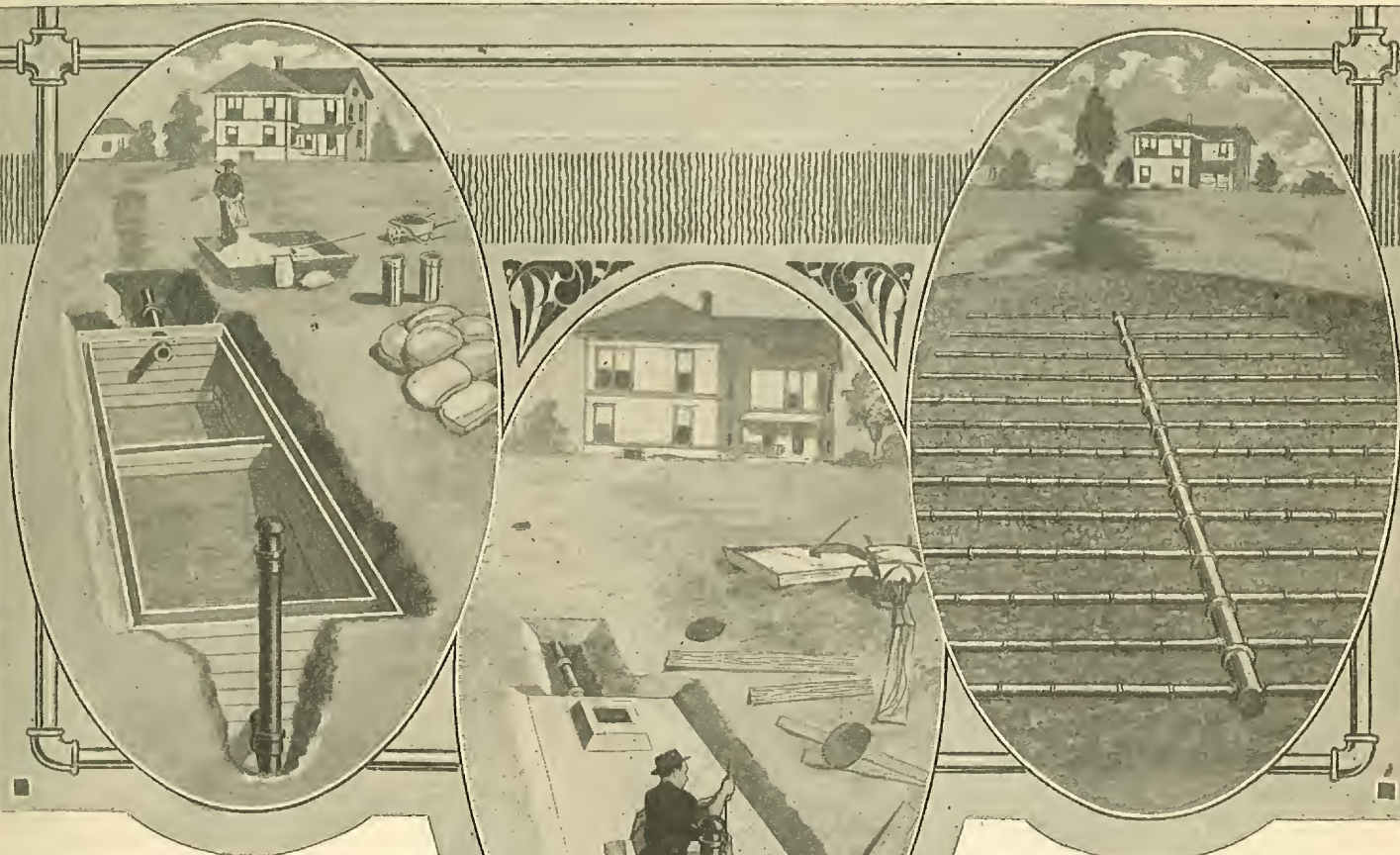
After the cement has hardened and you have removed the board partitions the catch basin is ready for use. The inlet and outlet pipes of course, are to be placed as indicated in our plans.

You can best purchase material such as cement, tile, etc., for the disposal system in your home locality, as the transportation charges would usually be so great as to prevent our saving you money on small shipments.

The catch basin is somewhat smaller in construction than the septic tank which is located a short distance further. The cover of both will be just a few inches above ground. This cover is so constructed that it can be fastened down. Any possible danger to children is thus avoided. After passing through the catch basin, and being freed from grease, the waste passes on to the septic tank, where it is decomposed by the bacteria and converted into a clear and harmless liquid.



A Complete Engineering Service is Provided for Our Customers



Building Septic Tank

The next step is to build the septic tank. Excavate to the proper size and depth and desired distance from catch basin, as shown and described in our plans and instructions. You then start to build board forms for the concrete walls of the tank and fill form with regular concrete mixture as described in our instructions.

The pipe from the catch basin projects a short distance into the septic tank. It is an easy matter to properly place these pipes by following our instructions. A ventilating pipe is shown at outlet. If preferred, a ventilating cover on the second compartment will answer the purpose.

The ideal type of tank is described fully on another page in this catalogue. It is of double-part construction and arranged to develop bacteria action, which causes the sewage to leave the septic tank in an almost odorless and colorless liquid condition.

Removing Board Forms

In the construction of the different tanks, steel rods are used for re-inforcing. These rods you can place right in the cement as you are applying it and then cover them with the remaining layer of cement, making it the proper thickness as indicated in our plans.

When the tank is completed and the cement hardened, simply remove the board forms. It will last for a life-time and take the place of a city sewer.

A man-hole and cover is provided in the top of each compartment so that any sediment accumulating in either compartment can be removed.

Nitrification Bed

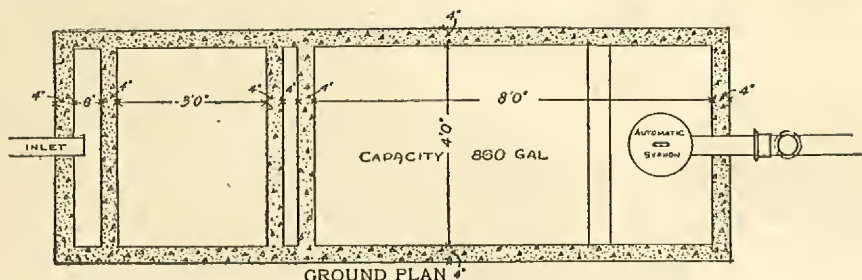
Having completed the septic tank you are ready to construct the nitrification bed, which is to be only a short distance beyond. The construction of this nitrification bed is described fully in our set of plans.

As the sewage is now in its third and last step of elimination, it is practically a colorless and odorless fluid. The tile in the nitrification bed is laid loosely, with uncemented joints. Through these the fluid seeps upon the bed of crushed stone, or gravel below. At the bottom of this bed is placed a short length of tile for draining into lower land what is left of the sewage—a harmless fluid.

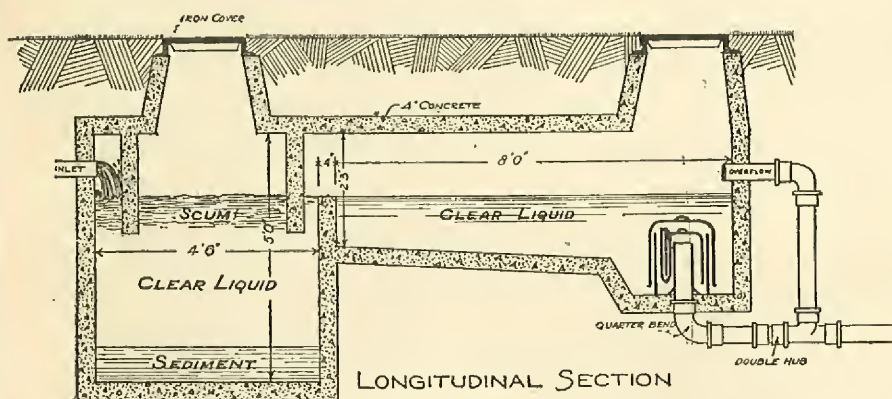
You need a plumbing system. Fill out the estimate blank enclosed in this catalogue and let us show you how much money you can save. A complete engineering and estimating bureau is provided for our customers.



You Can Build Your Own Septic Tank From These Suggestions



The Septic Tank shown here will automatically dispose of all sewage from your building for many years



After much careful and exhaustive study of the problem of sewage disposal and many costly experiments by scientists and sanitary engineers of many different countries, the following basic facts were discovered.

First—It was observed that if a quantity of sewage is allowed to stand in a jar in the dark for a few days, a film or scum gradually forms on the surface, and the solids settle to the bottom. In a short time, these solids go into solution and the whole mass will become liquid. This is the first stage of decomposition, or, as it might better be called, transformation or changing of the sewage.

Second—It was further observed that if this liquefied sewage was poured into a box of sand or gravel, and allowed to percolate or soak through it, the liquefied sewage would become completely transformed into a clear and practically harmless liquid. This is the second and last stage of transformation. These experi-

ments led to the discovery that in the different stages of decomposition which took place in the sewage, bacteria were present in great numbers. It was further discovered that the bacteria present in the first stage of decomposition were entirely different from those present in the second stage. It was found that the bacteria in the first stage, transforming it to the liquefied form, thrive best in the dark and without air, while the bacteria present in the second stage of decomposition, thrive best in the light and air. For this reason, the former are called anaerobic bacteria, and the latter aerobic bacteria.

The anaerobic bacteria are a class of organisms of decay which can live and multiply only in liquids without air or light. They are the organisms which cause the sewage to liquefy and to decay. Aerobic bacteria are organisms which can live only in the presence of free oxygen or air. They are the fundamental force of nitrification. The aerobic bacteria complete the work of anaerobic bacteria in purifying the sewage after the latter have transformed it into the liquid state.

The Problem Completely Solved

We show above a plan and elevation of an easily constructed Septic Tank, in which the scientific principles we have just discussed are applied in the most practical way. This tank comprises two separate chambers.

In the first chamber the sewage undergoes the first stage of decomposition, and it is in this chamber that it is acted upon by the anaerobic bacteria.

The sewage then passes into the second chamber where the aerobic bacteria act upon it, turning it into clear liquid.

There is a pit at the far end of this chamber, at which an automatic siphon is placed, so this chamber is completely emptied at regular intervals. The liquid as it leaves the Septic Tank, should be carried through the outlet pipe to a system of drain tile, covering a large area of ground.

In passing through the tile, it becomes thoroughly aerated, which completes the nitrification process. All danger of contamination of wells or springs from which the water supply for the house is taken is practically eliminated after the sewage has gone through this last process of purification.

Construction and Cost

The construction of one of these modern septic tanks, is very simple. It will be noted that at the inlet and at the dividing partition between the two chambers of the septic tank a baffle plate is placed so that the scum which forms at the top in the first chamber will not be disturbed by the incoming and outgoing liquid. The purpose here is to avoid disturbing the bacteria while at work.

If the plan above suggested is followed closely in the construction of the tank, you will have a sewage disposal system that will automatically dispose of all sewage from your building for many years and with very little attention.

The tile distributing system should be extended over a reasonably large area of ground. For a system of this size, 300 to 325 lengths of tile are sufficient. The tile should be laid with open joints, no cement whatever being used, so that the liquid sewage can percolate or pass out into the soil. Where connected to septic tank, tile will be about 5 or 6 feet below surface, and should pitch slightly downward to the ends.

The total cost of a modern sewage disposal system of this kind is about as follows:

Cement, 5% barrels	\$ 8.50
Sand, 2 cubic yards	2.00
Gravel, 3 cubic yards	3.75
Farm Drain Tile, for absorption system, 325 tile.....	9.00
Twisted steel concrete reinforcing rods, for covers and tops.....	9.00
Cast iron soil pipe and fittings, calking cement, etc., for vent.....	9.75
Automatic siphon, No. 81T6829, listed on Page 52 of this cat....	17.75
Two cast iron covers, No. 281T6141, listed on page 52, \$8.10 each	16.20
Cinders and Gravel around the tile system.....	10.00

Total cost 85.95

The above estimate will, of course, vary slightly with market conditions in different parts of the country. We have not included in this estimate, the item of labor. This at the most, should not exceed \$35.00. And, if you can do this yourself in your spare time, no money need be paid out for labor.

Speed Service and Economy



You Are Assured of These by Our Engineering Bureau

In the foregoing pages we have endeavored to show you how simple it is to put in our modern plumbing. The illustrations on these pages show an old building being equipped with a complete plumbing outfit, but a new building is even more easily equipped during construction. Visiting customers, to whom the first pages of this catalogue were shown during its preparation, declared they could go right ahead and install plumbing fixtures in their home by following the pictures. But our complete engineering service makes things even more easy for you.

The illustrations above show a section of our correspondence and drafting departments, where trained people prepare special plans for you and answer your letters in the most painstaking manner.

From the rough sketch which you send us, filled out on the special estimate blank enclosed in this catalogue, our engineering and estimating bureau estimates the exact amount of pipe and fittings required for your building and draws up a complete set of detailed plans showing just where every fixture is to be located, how it is to be connected, and the size and kind of pipe and fittings to be used. We have never known of anyone having the slightest difficulty in installing his own outfit by following our plans.

Draw a rough plan of your floors on the blank enclosed in this catalogue and let us estimate on a plumbing system particularly adapted for your requirements.

Installing Your Own Plumbing is Easy with Wardway Soil Pipe Cement

With this preparation you can complete a soil pipe stack in a couple of hours where the old lead method took a day or more.

The gasoline furnace and melting pot, and the attendant risk of fire is eliminated. Scorched fingers and spilling of hot lead cannot retard the work when Wardway Cement is used.

Our Wardway Soil Pipe Cement is a special quick-setting cement for calking soil pipe joints. Comes in form of a black powder. It is easily mixed with water and simply smoothed into the joint with a small trowel. It soon becomes almost as hard as iron.

How You Use It

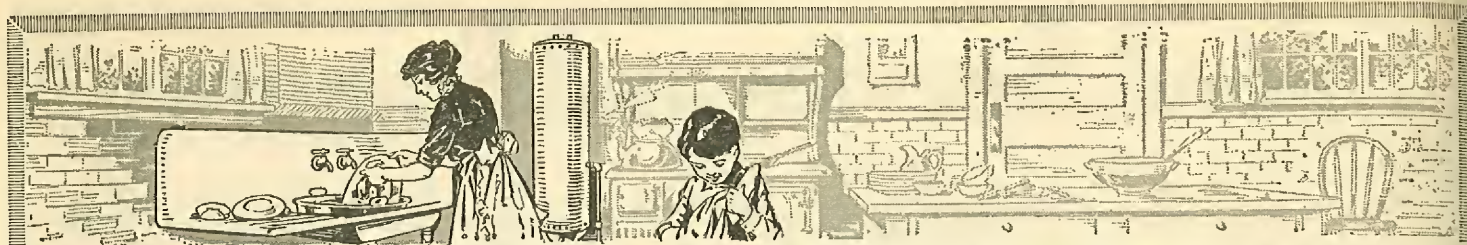
With the soil pipe in place, fill inside of the hub about two-thirds full of oakum. Calk down evenly with a hammer and packing chisel.

After the oakum is packed, the inside of the hub should be two-thirds full. Then fill the balance with Wardway Soil Pipe Cement.

With a small trowel, work the Cement evenly into the hub. The cement will quickly set and form a joint absolutely tight and as lasting as one made with lead.

For price see page 60.





The Simplicity of Our Plumbing Equals Its Completeness

Prices Within Reach of All

The cost of installing a Modern Plumbing System with septic tank and sewage disposal processes as illustrated on this page is imagined by many people to be far greater than it really is. A separate stack for sink and laundry tub waste is shown. However, in many cases only one stack is used.

By taking advantage of the exceptionally low prices at which we are offering this material, and by making the installation yourself according to our complete plans and instructions, you can install one of these complete systems for a sum, well under \$200.

A very small investment when you consider the health insurance and comforts that you obtain from it.

We Furnish Everything Required to Complete Your Plumbing System

From the ground to the roof we furnish every fixture that is needed to completely equip your home with modern sanitary plumbing.

Our line of fixtures is of the highest quality and represents the most advanced ideas in the science of plumbing.

A very clear idea of all the details of a modern plumbing system may be gathered from the illustration shown on this page.

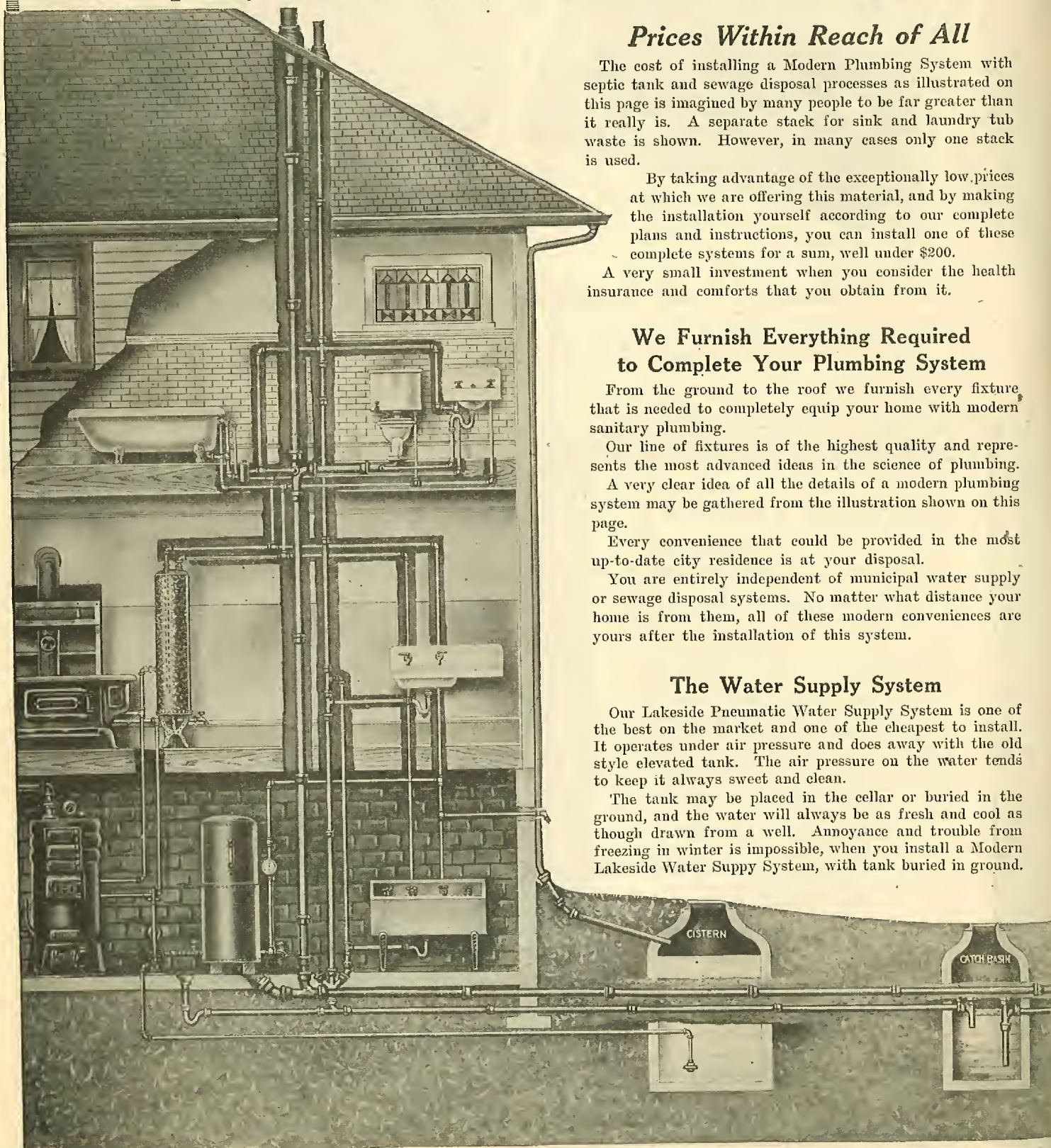
Every convenience that could be provided in the most up-to-date city residence is at your disposal.

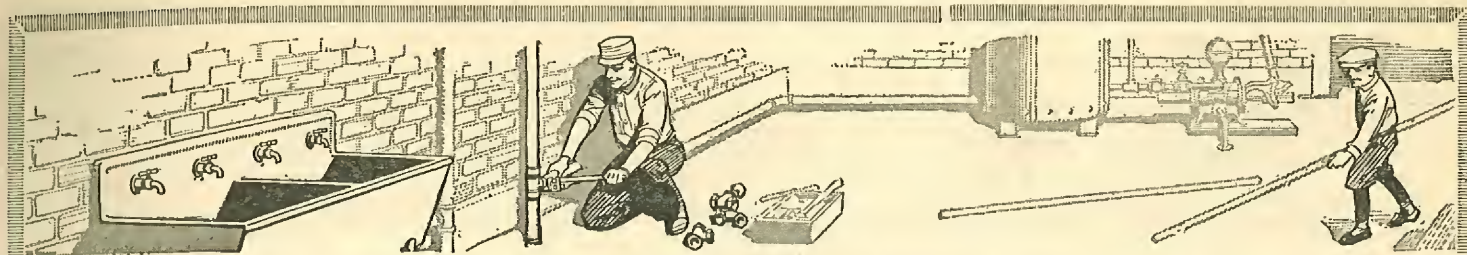
You are entirely independent of municipal water supply or sewage disposal systems. No matter what distance your home is from them, all of these modern conveniences are yours after the installation of this system.

The Water Supply System

Our Lakeside Pneumatic Water Supply System is one of the best on the market and one of the cheapest to install. It operates under air pressure and does away with the old style elevated tank. The air pressure on the water tends to keep it always sweet and clean.

The tank may be placed in the cellar or buried in the ground, and the water will always be as fresh and cool as though drawn from a well. Annoyance and trouble from freezing in winter is impossible, when you install a Modern Lakeside Water Supply System, with tank buried in ground.





Consider What An Improvement Plumbing Makes in Your Home

The Illustration on Opposite Page Represents a Cross-Sectional View of a Modern Country Home Equipped With Our Plumbing Fixtures Connected to a Sanitary Sewage Disposal System

The Modern Bathroom

Now that modern science has solved the problem of water supply, and sewage disposal for the farm and town house, no home need be without a modern bathroom.

You can have running hot and cold water in the lavatory, tub or shower bath. Every comfort and convenience can be yours.

The Modern Kitchen

The great advantages of these modern conveniences can be readily appreciated in the kitchen.

The modern kitchen sink, with its clean and sanitary open plumbing work, you will find listed elsewhere in this book. No modern home should be without one.

The burden of housework is almost cut in half. No more carrying of water from the pump on cold mornings. Housekeeping will become more of a pleasure.

One of our 30-gallon galvanized range boilers properly connected to the water front of your kitchen range will give an adequate supply of hot water at all times. The housewife knows what that means to her.

The Modern Laundry

Our stoneware laundry tubs are fully illustrated and described on another page. No farm or town home should be without them.

The carrying of water and filling of tubs, with the vexatious spilling and slopping, is done away with. A set of these laundry tubs cuts the labor of washing in half.

All you have to do is to turn the faucet for either hot or cold water and mix to the temperature you desire. A tug at the stopper chain and the tubs empty themselves.

The Septic Tank

Reliable health authorities of the country endorse the septic tank system for use in the farm home or small town that lacks the municipal system.

Full instructions and working drawings of the septic tank appear on another page. It is very easily constructed and the cost is nominal.

This system incorporates the latest and most scientific ideas on the problem of sewage disposal. It is absolute insurance against dangers of typhoid or other contagion caused by pollution of the water supply, so often found where the old method prevails.

The tank first purifies the sewage and then distributes it into the soil in such a way that contamination with wells or springs is impossible.

The Catch Basin

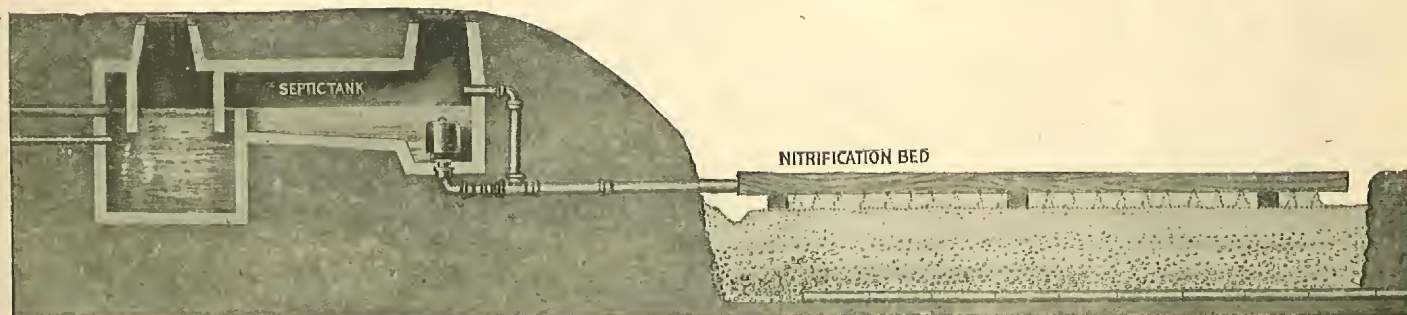
Waste water from the kitchen sink goes to the catch basin, where the grease is separated. It should be frequently removed.

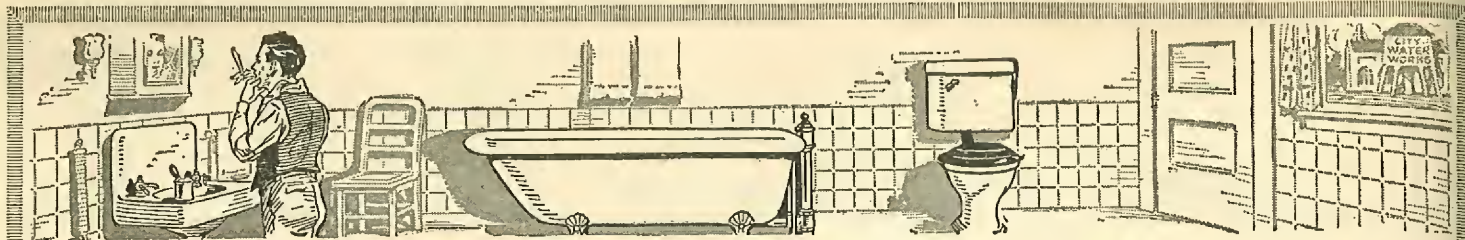
The purpose of the catch basin is to prevent the greasy substances from interfering with the action of the anerobic bacteria in the septic tank.

After the grease is drawn off, the water remaining in the basin is automatically discharged into the septic tank and after being purified finally reaches the nitrification bed.

When the sewage leaves the septic tank it is a clear and odorless liquid, but it is finally and absolutely purified in the nitrification bed before being allowed to filter away into the soil.

Write today for our estimate on a modern plumbing system for your home. Simply fill in the Estimate Blank inserted in this catalogue and send to us. We maintain a first-class Engineering and Estimating Bureau for our customers. You will be surprised at the very low figure that we can make you.





Northport

Plumbing Outfit

\$149⁵⁰ Complete
No. 381T6091

Bathroom Outfit Our Colonial Bathroom Outfit shown on Page 29 of this book. Bath Tub is heavy cast iron, white-enameled. Length, 5 feet. Full set nickel-plated fittings. Enameled lavatory has deep apron, with nickel-plated fittings. The closet is our low-tank, wash down combination, with oak tank and seat and nickel-plated fittings. All these fixtures fitted for iron pipe connection.

Kitchen Sink The kitchen sink is our No. 181T6646, size 18x30, fully described and illustrated on Page 43 of this book. This porcelain enameled sink is cast in one solid piece, with high back and reversible enameled drain board. Heavily constructed with deep roll rim. Fitted complete, with trap to wall. Fuller flanged faucets and concealed wall hangers. All connections for iron pipe.

Range Boiler The range boiler is our No. 181T6719, regular 30 gallon type, galvanized boiler, and by making connection to the cast iron water front in your stove, you can keep a constant supply of hot water in the tank as long as there is any fire going in the stove. Furnished complete with stand, tube and couplings for iron pipe connection. Described and illustrated on Page 46 of this book.

The kitchen stove shown in illustration, and water front for same, are not included in this offer.

Pipe and Fittings In addition to the above complete plumbing fixtures, we will furnish all necessary 4-inch standard cast iron soil pipe, soil pipe fittings, lead traps, connections, etc., cast iron adjustable bend for closet connection, calking lead, oakum, shut-off rod for water supply pipe where it enters building, in fact everything required to completely install this plumbing system, according to plans and instructions which we will furnish.

If your locality has a special city ordinance covering house drainage, send us a copy and our engineers will quote price on an outfit to conform in all details with your local requirements.

Plans and Instructions This proposal also includes full set of detailed plans and instructions, showing just how all this material should be properly installed. All connections are for iron pipe. Any man handy with tools can install this plumbing system in any building by following our simple plans and instructions. We will also loan you the necessary tools for installing according to our loan offer on Page 59 of this book.

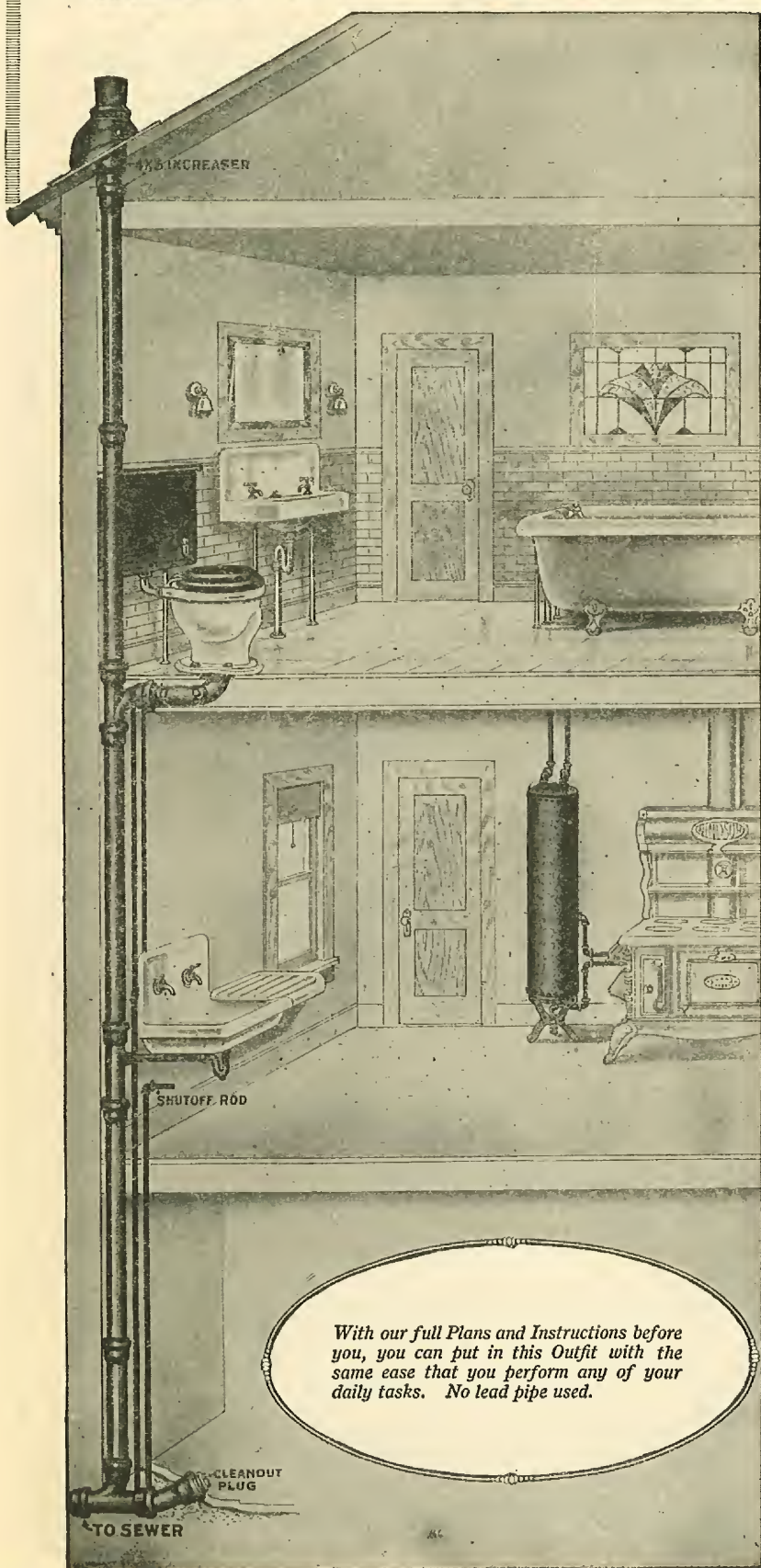
Note If your building is two stories high and the bath room is located directly over the kitchen, so that closet outfit and kitchen sink may be connected into soil pipe stack, and provided you already have connection to city water or a water supply system of some kind, then this outfit will suit your needs.

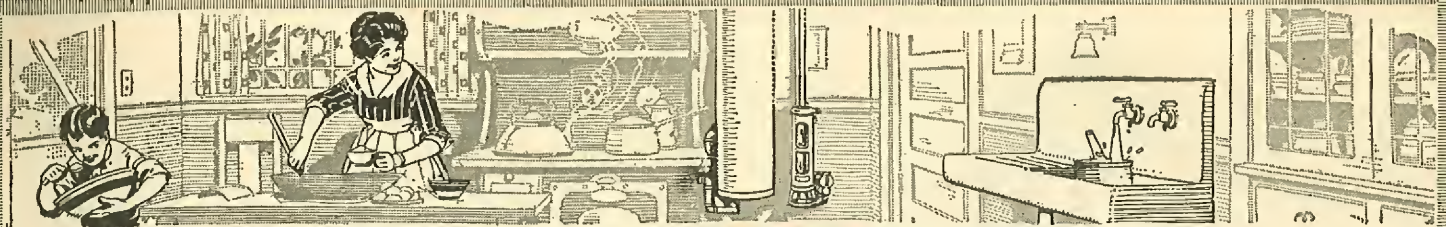
You can order right from this page. Send us remittance and diagram showing how you want fixtures placed.

381T6091—Complete plumbing system as described. Shipped from our New York store in about four days. Shipping wt., 900 lbs.

Price. **\$149.50**

With our full Plans and Instructions before you, you can put in this Outfit with the same ease that you perform any of your daily tasks. No lead pipe used.





Greenwood Plumbing Outfit

\$186⁵⁰ Complete
No. 381T6092

Bathroom Outfit

Colonial Bath Room Outfit (181T6305), as described on Page 29. Beautiful in appearance, elegant design and a high grade outfit in every respect.

Kitchen Sink

Is our 181T6646 one-piece, roll rim, cast iron, enameled sink, size, 18x30 inches, with reversible drain board, as described on Page 43. A perfectly sanitary sink, easy to clean and keep clean. Sink is fitted with Fuller Flange Faucets, and trap to wall.

Range Boiler

Is our No. 181T6719, regular 30-gallon type, galvanized boiler. Fitted complete with stand, tub, and couplings for 3/4-inch iron pipe connection. Described on Page 46. Stove or water front not included.

Attic Storage Tank

Is our 288T8154, galvanized round storage tank, made of No. 20 gauge steel. Diameter of tank, 4 feet; height, 2 feet; capacity, 6 barrels. Tank is strongly built and braced. For further description see Page 25.

Pump

Is our 183T5938 double acting force pump, with brass-lined cylinder, as shown in illustration. A very easy working pump. For detailed specifications of this pump see Page 62. This pump is for wells where the water is not more than 25 feet below the pump.

Pipe and Fittings

In addition to the above, we will furnish all necessary 4-inch soil pipe; soil pipe fittings; galvanized iron supply and waste pipe; galvanized iron pipe to connect pump with tank; a gate valve; check valve, etc.; all necessary lead traps and connections, etc. We will furnish complete, plans and instructions. We will include not to exceed 20 feet of 1 1/4 inch galvanized iron pipe to connect pump with well or cistern.

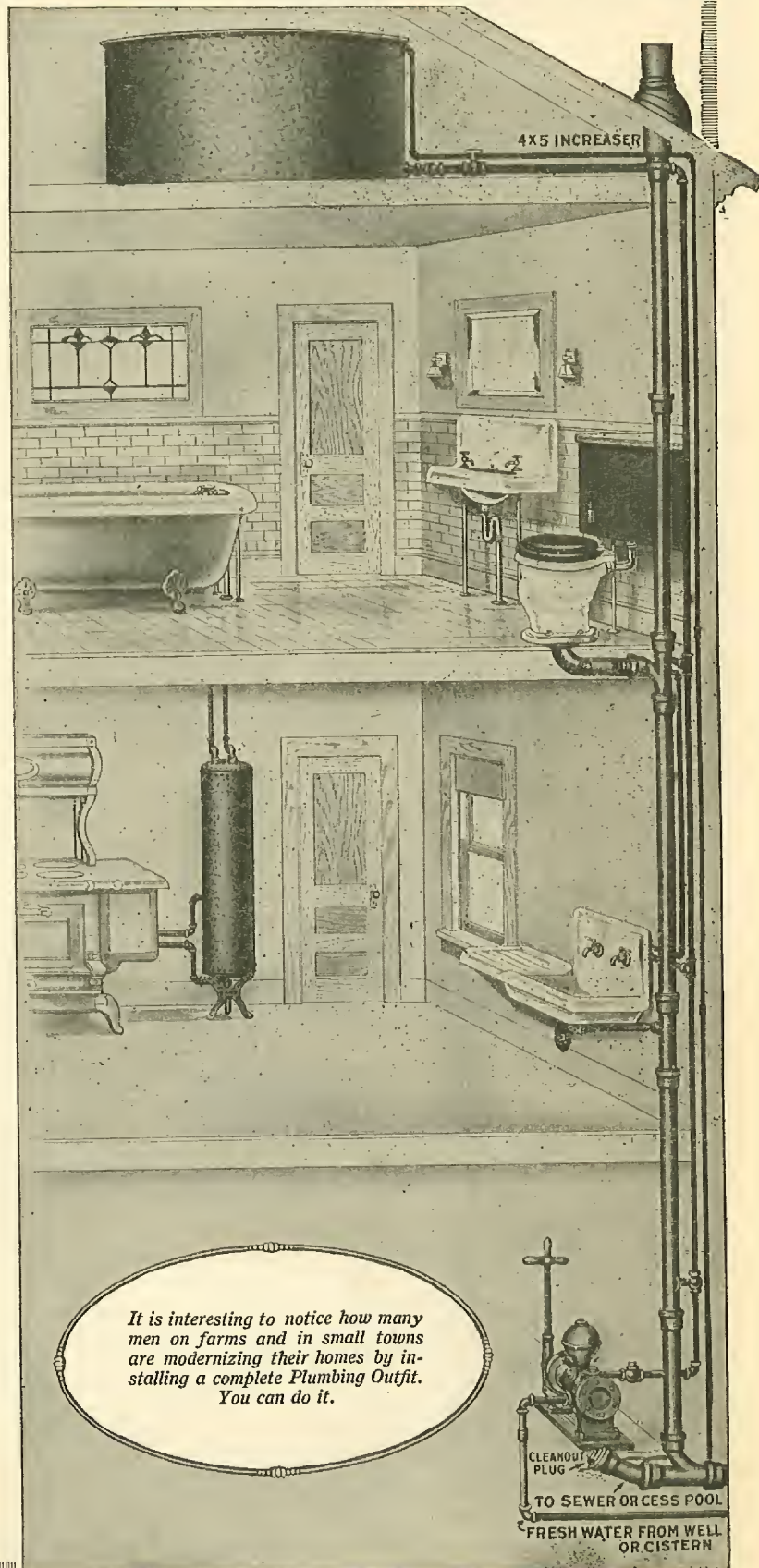
All connections will be for iron pipe. If your locality has any special plumbing ordinance, send us a copy. If there is none, our estimators will use their best judgment.

Note The equipment included in this proposal is sufficient to cover the requirements of all ordinary jobs, where the bath room is located directly above the kitchen, as shown in this illustration and where pump can be located in basement of building, with attic tank closely in line in the attic. If these fixtures are not too widely separated, requiring an extraordinary amount of piping, the material in this equipment will fulfill all your requirements.

You can order right from this page. Send diagram showing how you want to locate the fixtures. Our engineers will prepare special plan to suit your particular case, and a diagram and instructions will be mailed to you.

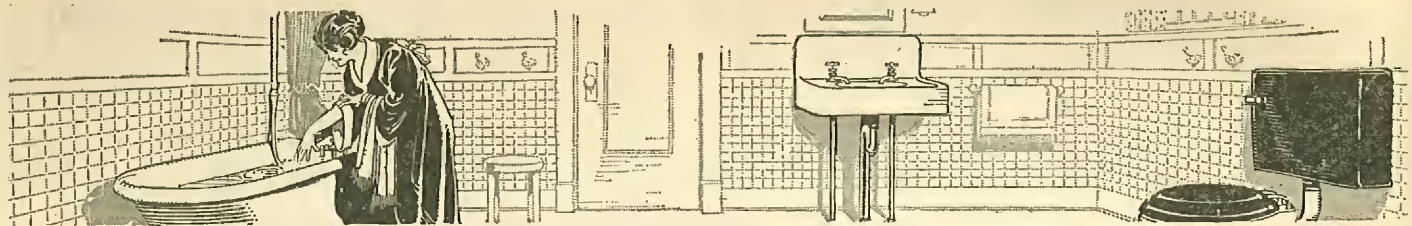
381T6092—Complete Plumbing System,
as described. Price.....**\$186.50**

Attic tank shipped from factory, all other parts from New York store in about four days. Shipping weight, about 1800 lbs.



It is interesting to notice how many men on farms and in small towns are modernizing their homes by installing a complete Plumbing Outfit. You can do it.

CLEANOUT PLUG
TO SEWER OR CESS POOL
FRESH WATER FROM WELL OR CISTERN



Brookfield

Plumbing Outfit

\$219⁵⁰ Complete
No. 381T6093

Bathroom Outfit Is our Colonial Bathroom Outfit (181T6305), illustrated and described on Page 29. It is of beautiful appearance and elegant design. A high-grade outfit in every respect. Fixtures are all fitted for iron pipe connection.

Kitchen Sink Is our 181T6642, cast iron, white porcelain enameled, long back, with back and drain board all cast in one solid piece. Easily cleaned and kept clean.

Sink is of heavy roll rim construction, genuine white porcelain enameled. Size of sink, 20x30 inches. Length of drain board, 24 inches. Height of back, 12 inches.

Concealed wall hangers. Fuller flanged faucets, heavy cast iron end bracket for drain board support. For iron pipe connection. For further description see Page 44.

Range Boiler Is our 181T6719, regular 30-gallon type, galvanized boiler. Fitted complete with stand, tube and couplings for iron pipe connection. Described on Page 46. Stove or water front are not included in this proposal.

Water Supply System Is our 281T8175 Lakeside pneumatic air pressure water supply system. Size of tank, diameter, 24 inches; height, 6 feet. Total capacity, 140 gallons. Working capacity, 100 gallons. Outfit is furnished complete with tank, pump, valves, gauges, etc., described in detail on Page 19. The pump is for wells where the water is not more than 25 feet below the pump.

Pipe and Fittings We will furnish all necessary cast iron soil pipe, soil pipe fittings, lead bends, traps, connections, etc., galvanized iron supply and waste pipe and fittings and everything required to install this entire plumbing system with water works system, in building, from ground line to roof, as shown in illustration, and according to plans and instructions which we will furnish. We will include not to exceed 20 feet 1 1/4-inch galvanized iron pipe to connect pump with well or cistern.

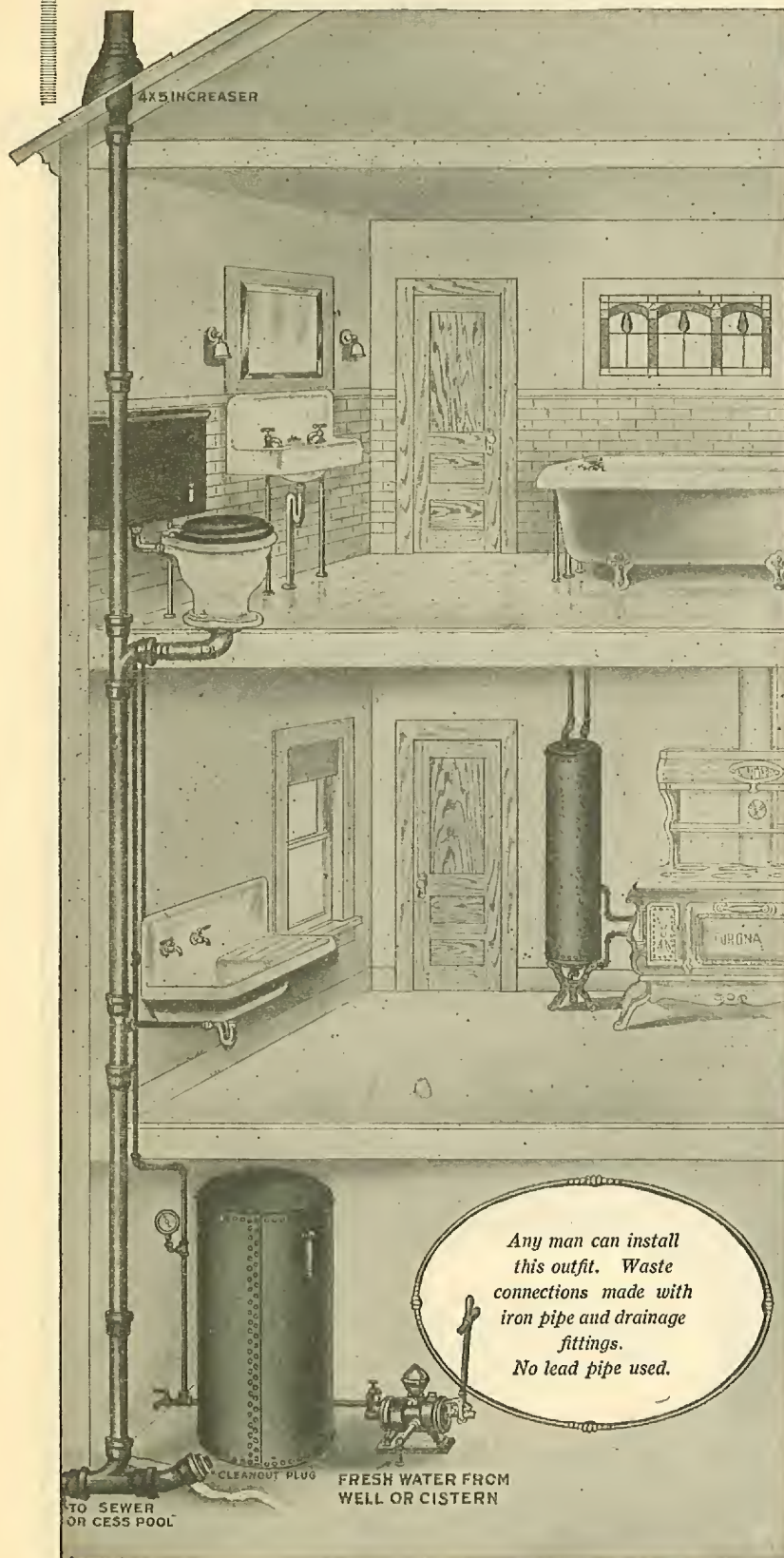
Note This proposal covers all requirements in any ordinary two-story dwelling where the fixtures will be located, as shown.

If your locality has any special plumbing ordinance, send us a copy. If there is none, our estimators will use their best judgment.

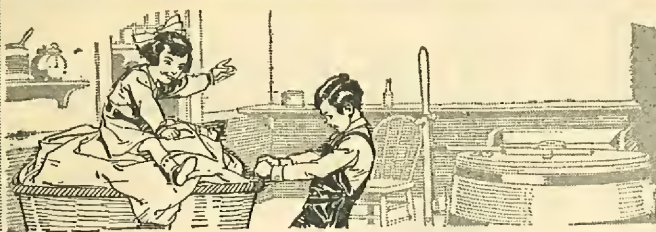
You can order right from this page. Enclose remittance and send us a diagram showing just how you want the fixtures located. We will prepare a special plan to meet your requirements, and the order will be filled accordingly.

381T6093—Complete Plumbing System, as described. Price.....\$219.50

Water Supply Tank shipped from factory. Balance of outfit shipped from New York store in about four days. Shipping weight, about 1,700 pounds.



Any man can install this outfit. Waste connections made with iron pipe and drainage fittings. No lead pipe used.



Westwood

Plumbing Outfit

\$235⁵⁰ Complete
No. 381T6094

Bathroom Outfit

Is our 181T6305 Colonial Bath Room Outfit, as illustrated and described on Page 29. This is one of our most popular bath room combinations. A high grade outfit in every respect. Fixtures are all fitted for iron pipe connection.

Kitchen Sink

Is our 181T6642 cast iron, white porcelain, enameled, long back kitchen sink, with back and drain board all cast in one solid piece. Heavy roll rim. Easily cleaned and kept clean.

Size, 20x30 inches. Length of drain board, 24 inches. Height of back, 12 inches. Complete, with two ornamental cast iron legs, heavy cast iron end bracket for drain board support, nickel-plated Fuller flanged faucets, and 1½-inch nickeled brass P trap to wall fitted for iron pipe connection. For further description see page 45.

Range Boiler

Is our 181T6719, regular 30-gallon type, galvanized boiler. Fitted complete with stand, tube and couplings for iron pipe connection. For detailed description see page 46. (Stove or water front are not included in this offer.)

Laundry Tub

Is our 281T6710 Two-Part Stoneware Laundry Tub, with high back, Fuller flange faucets, and 1½-inch lead trap for iron pipe connection, as shown on page 47.

Water Supply System

Is our 281T8175, Pneumatic Air Pressure Water Supply Systems. Size of tank, diameter, 24 inches; height, 6 feet. Total capacity, 140 gallons. Working capacity, 100 gallons. Outfit is furnished complete with tank, pump, valves, gauges, etc. Described in detail on page 19.

Pipe and Fittings

We furnish all necessary cast iron soil pipe, soil pipe fittings, galvanized iron supply and waste pipe, lead traps and connections, etc., that will be required to completely install this entire plumbing system with fixtures according to plans which we will furnish. All connections to be for iron pipe. We will include not to exceed 20 feet of 1¼-inch galvanized iron pipe to connect pump with well or cistern.

Note

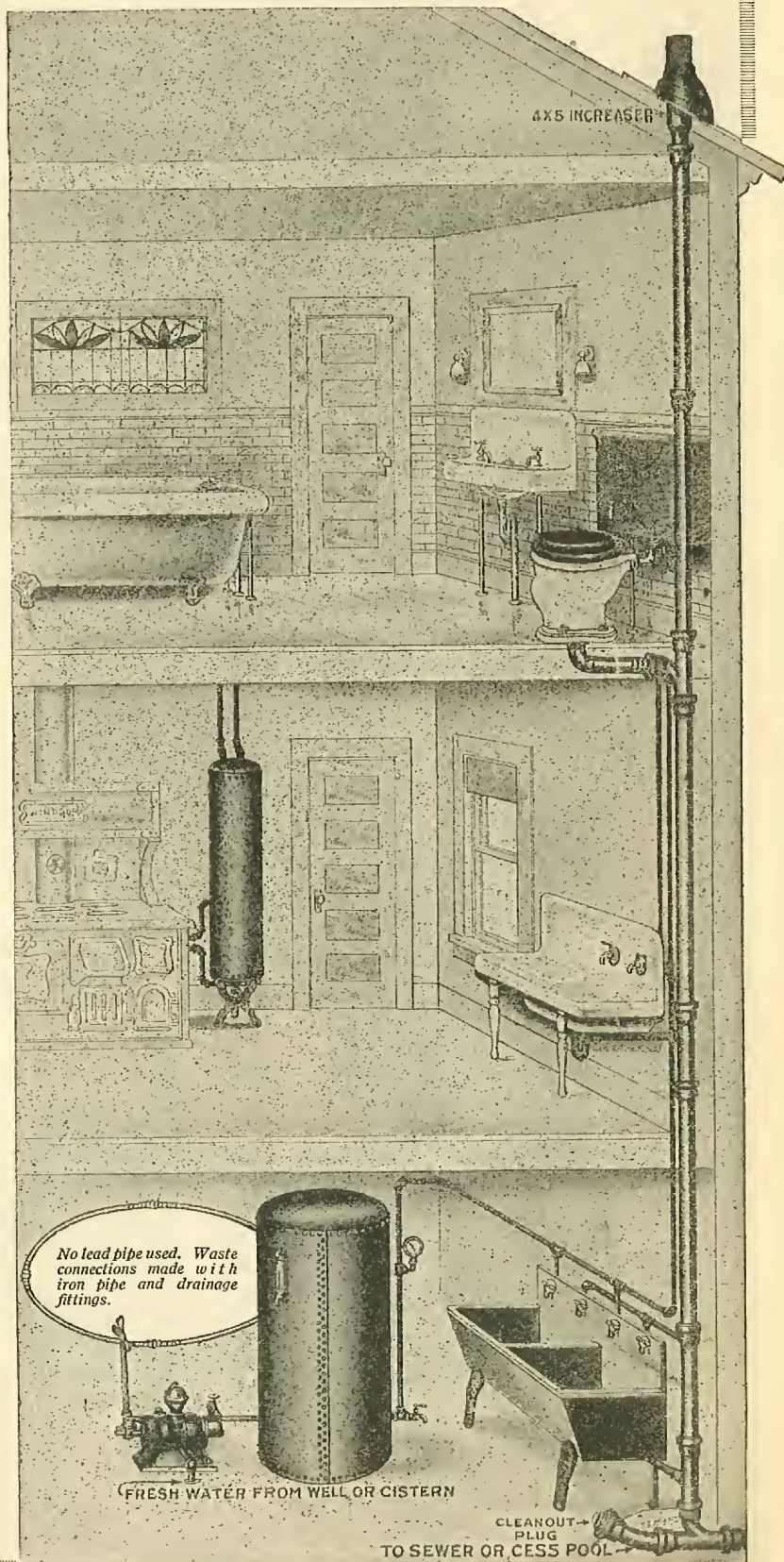
The equipment included in this proposal is sufficient to cover the requirements of all ordinary jobs where the bath room is located directly above the kitchen, as shown in this illustration and where water supply system can be located in basement of building with plumbing fixtures closely in line, as shown.

Send us remittance and diagram showing how you want to locate the fixtures. If your locality has any special plumbing ordinance, send us a copy.

381T6094—Complete Plumbing System, as described. Ship. wt. 2500 lbs. Price, **\$235.50**

381T6096—Outfit as described but without pneumatic tank and pump. Ship. wt., 1965 lbs. Price, **\$171.50**

Water Supply Tank shipped from factory. Balance of outfit shipped from New York store in about four days.



Running Water in the Home



Modern Plumbing Requires Running Water Put It in Your Home

Have you ever taken count of the many uses to which running water in the home can be put?

The installation of modern plumbing with its many comforts is made possible. Cool drinking water is at hand on every floor. The pleasant comfort of a properly tempered bath and the luxury of convenient facilities for shaving are yours.

Your automobile may be washed as frequently as desired and entirely without the laborious bucket carrying that you could not otherwise avoid.

A well kept lawn vastly improves the appearance of your home. In the droughty days of summer, running water will keep the yard green and attractive.

The watering trough at the driveway or down at the barn is automatically kept full. It requires no attention.

On the pages of this book that follow you will find our various water supply systems listed. They are: the gravity attic tank outfit with hand pump and the pneumatic tank outfit with hand or power pumps. See which is best fitted to your needs.

The pneumatic system is one in which the water is pumped into a tank in the basement or underground until the air pressure is sufficient to give you adequate water pressure wherever it is needed.

This system insures a plentiful supply of cool and absolutely clean water.

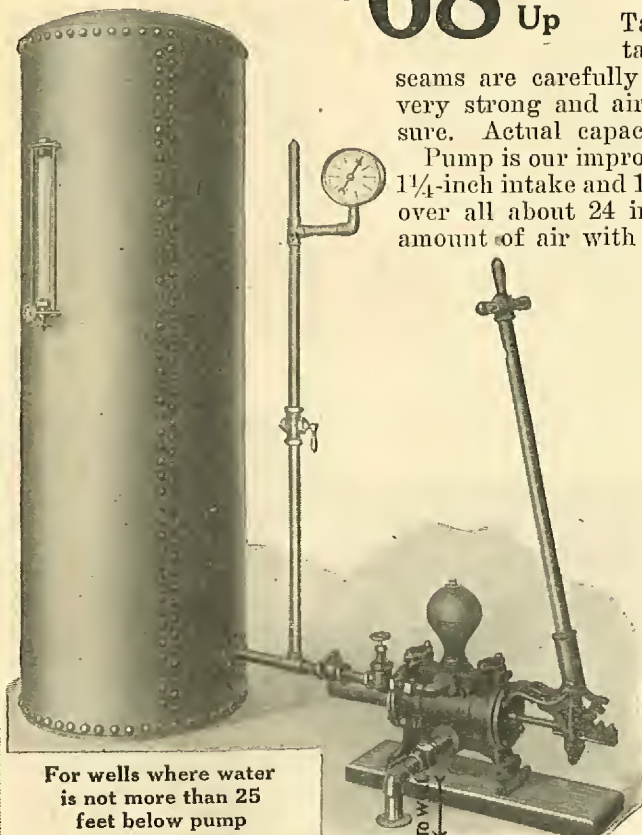
The pump on the hand power systems works so easily that a boy can operate it. You will be happily surprised when you find how little care and attention is required to keep this system in perfect working order.

And, though the cost may seem very low, remember that our systems are all time-tried and guaranteed.



Lakeside Pneumatic Water Supply System with Vertical Tank

\$68⁵⁰
Up



For wells where water
is not more than 25
feet below pump

A dependable water supply system for the average sized home. Takes up little room. The tank is one of our Lakeside Pneumatic tanks, made of $\frac{3}{16}$ -inch sheet steel with $\frac{5}{8}$ -inch heads. All seams are carefully calked. Horizontal seams are double riveted, making tank very strong and air-tight. Tank is carefully tested under 125 pounds of air pressure. Actual capacity is about one-half greater than working capacity.

Pump is our improved, combination, double-acting air and water force pump. Has $1\frac{1}{4}$ -inch intake and 1-inch discharge. Brass-lined cylinder, 3 in.; stroke, 4 in. Length over all about 24 inches. Geared drive, very easy operating. Pumps sufficient amount of air with each stroke to maintain the proper pressure in the tank. Capacity, about 4 gallons per minute.

Outfit complete consists of tank, pump, water gauge for tank; pressure gauge for tank; brass compression drain cock; 1-inch brass gate valve; 1-inch brass check valve, and all necessary iron elbows, nipples and unions to make connection between pump and tank as shown above.

A $\frac{3}{4}$ -inch lever handle brass stop cock for main water connection supply is also included. Suction pipe from well is not included. We furnish blue print and instructions for installing.

If the water in your well is more than 25 feet below, order one of our Deep Well Systems shown on another page.

Size Tank Feet	Work Capacity Gallons	Shipping Weight Complete	Number Black Tank	Price Complete Black	Number Galv. Tank	Price Complete Galvanized
2 x 6	100	535	281T8175	\$ 68.50	281T8176	\$ 89.50
2 x 8	130	650	281T8177	82.99	281T8178	110.50
2 1/2 x 8	160	650	281T8179	79.95	281T8180	108.50
3 x 8	200	790	281T8181	89.60	281T8182	124.50
3 1/2 x 8	225	840	281T8183	97.50	281T8184	134.50
3 x 6	300	990	281T8185	112.50	281T8186	156.50

Pump and fittings shipped promptly from stock and tank from factory.

Lakeside Pneumatic Water Supply System with Horizontal Tank

For outfits of larger capacity this Horizontal Tank is always preferred. Heavy steel supports for tank are included. Tank may also be buried in ground or in basement wall with end projecting out; then the water cannot freeze and will be cool in summer.

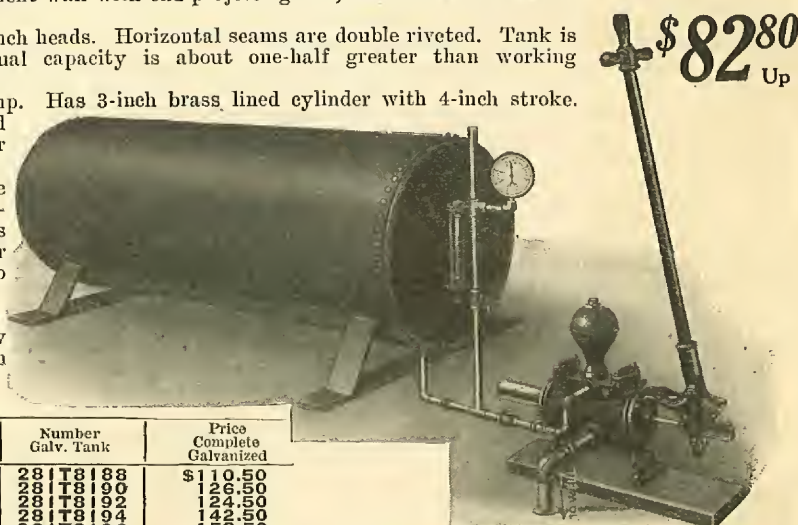
The Tank is made of $\frac{3}{16}$ -inch sheet steel with $\frac{5}{16}$ -inch heads. Horizontal seams are double riveted. Tank is carefully tested under 125 pounds of air pressure. Actual capacity is about one-half greater than working capacity.

Pump is our double-acting, air and water force pump. Has 3-inch brass lined cylinder with 4-inch stroke. Easy-working geared drive. Sufficient air is always pumped in tank by means of special air cylinder, maintaining proper pressure. Capacity, about 4 gallons per minute.

Outfit consists of tank; pump; water gauge; pressure gauge; compression drain cock; 1-inch brass gate valve, 1-inch brass check valve; and all necessary pipe and fittings to attach pump to tank as shown above. A $\frac{3}{4}$ -inch lever handle brass stop cock for water supply connection also included. Suction pipe from well not included.

We furnish blue-prints and instructions for installing.

If the water in your well is more than 25 feet below the pump, order one of our Deep Well Systems shown on another page.



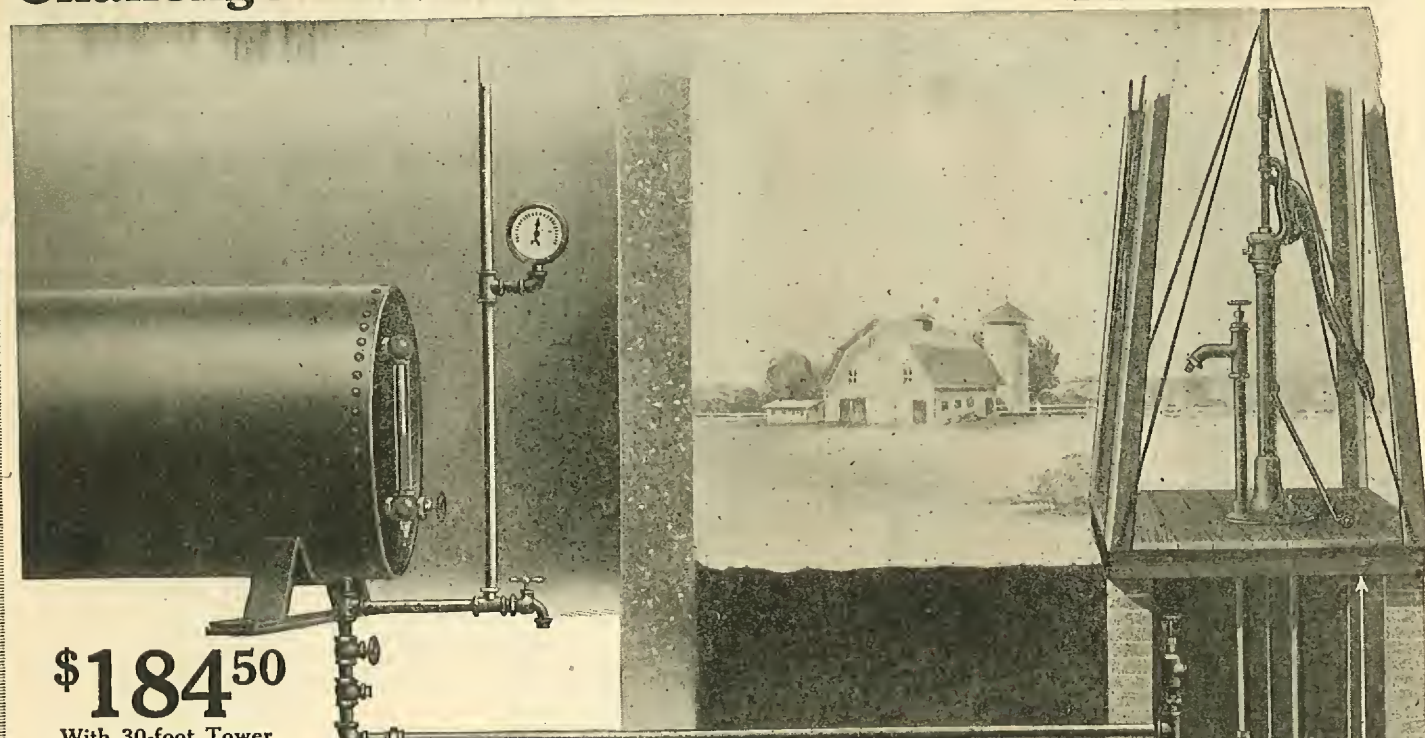
For wells where water in well is not more
than 25 feet below pump

Size Tank Feet	Working Capacity Gallons	Shipping Weight Complete	Number Black Tank	Price Complete Black	Number Galv. Tank	Price Complete Galvanized
2 x 8	130	650	281T8187	\$ 82.80	281T8188	\$110.50
2 x 10	170	765	281T8189	93.25	281T8190	126.50
2 1/2 x 8	200	790	281T8191	89.50	281T8192	124.50
3 x 8	250	960	281T8193	99.50	281T8194	142.50
3 1/2 x 8	300	1140	281T8195	112.50	281T8196	158.50
3 x 10	360	1140	281T8197	125.50	281T8198	178.50

Pump and fittings shipped promptly from stock and tank from factory.



Challenge Windmill Driven Water Supply System



\$184⁵⁰

With 30-foot Tower,
8-foot wheel, pump,
tank and all trimmings

BELOW FROST LINE

The Windmill furnished with this outfit is our improved Clipper Galvanized Steel Windmill, fully illustrated and described on page 63 of this book.

It has an automatic wind governor, which automatically regulates the position of the wheel in the wind, according to the power required, so that the wheel is thrown full in the face of the light winds. In heavy winds, which would cause the wheel to obtain too high a velocity, the wheel is thrown at an angle, so that just the proper velocity is always maintained.

Effectual brake mechanism operated through the governor spring, automatically holds the wheel, when locked, out of the wind.

The Tower furnished with each mill is one of our regular Clipper steel towers, one of the strongest and most substantial towers manufactured.

Outfit is furnished with necessary wood pump rod for connecting mill to pump.

The Pump is one of our three-way, antifreezing, deep well force pumps, for windmill attachment. It is fitted with three-way distributing valve, so that water may be drawn from spout of pump or directed through underground pipe to pneumatic storage tank, any distance away. For deep or shallow wells. Regularly fitted with 2½-12-inch brass-lined cylinder.

Air is supplied to tank by means of a hydro-pneumatic cylinder which is attached to force pump standard just below set length. Pumping capacity, about 3 gallons per minute.

The Tank included in this equipment is one of our Lakeside Pneumatic Water Storage Tanks, same as used on all regular Lakeside water supply systems. Tanks are strongly built of 3/16-inch sheet steel, with 5/16-inch heads and double riveted horizontal seams. Tested to 125 pounds air pressure, and are absolutely air tight and perfect. Tanks will stand a working pressure of 75 pounds.

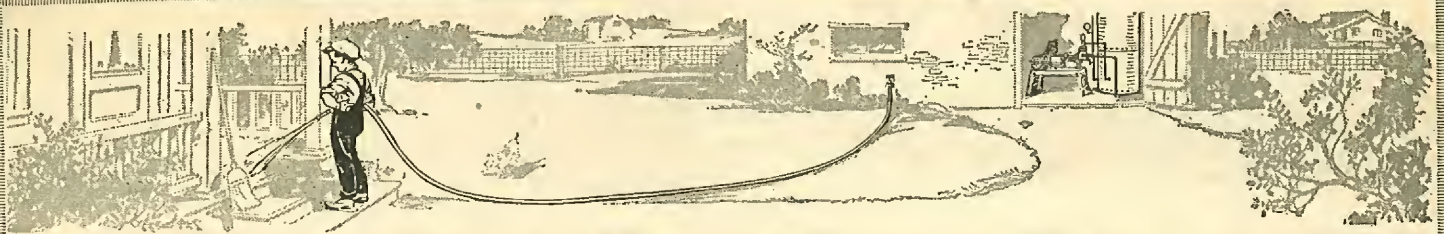
The outfit is furnished complete, with necessary trimmings for tank, such as water gauge, pressure gauge, drain cock, gate valve, and check valve, and also water relief valve to prevent any possibility of excess pressure being developed in the tank. The amount of piping and fittings required will vary in different installations. NOTE—We furnish Blue-print and instructions for installing.

We have not included any pipe or fittings in this equipment, neither have we included the necessary pipe or pump rod to extend cylinder into well. The amount of this required will depend upon depth of well. We will, however, include one pump cylinder, size, 2½x12 inches, with brass lining, and one hydro pneumatic cylinder, so that the proper proportion of air will be always pumped with water into tank, which prevents the tank from becoming waterlogged.

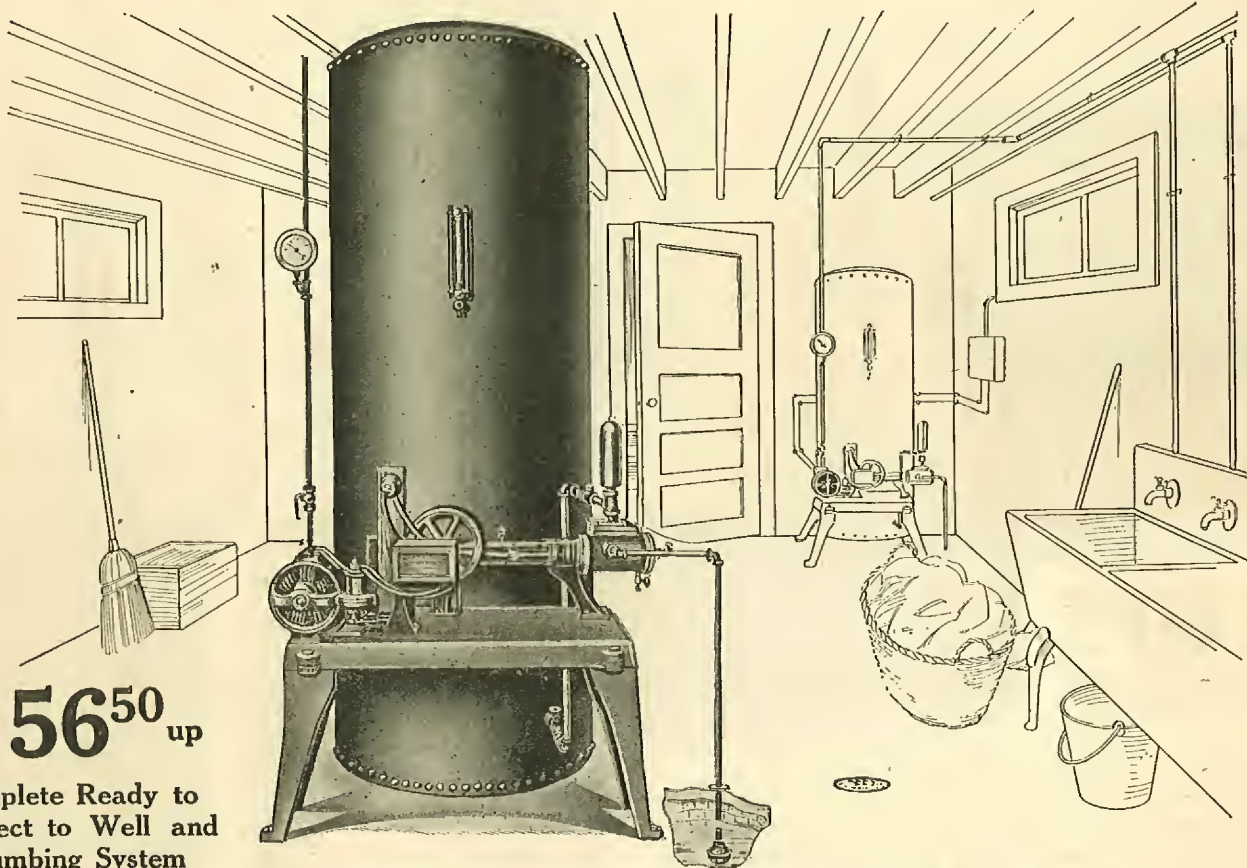
Article Number	Total Capacity Tank Gallons	Working Capacity Tank Gallons	Size of Wheel Feet	Weight of Wheel Pounds	Height of Tower Feet	Shipping Weight of Tower Pounds	Shipping Weight of Tank Pounds	Ship. Wt. Pump and Fittings Pounds	Diameter of Tank Inches	Length Tank Feet	Price Complete
281T82225	295	175	8	380	30	535	700	160	30	8	\$184.50
281T82226	365	250	10	470	40	700	870	160	30	10	219.50
281T82227	525	375	10	470	40	700	1050	160	36	10	244.50

Tank is shipped from factory. Pump and fittings shipped from stock. Windmill from factory.

Tank can be placed
any desired distance
away from pump.



Everflow Electric Automatic Water Supply System



\$156⁵⁰ up

**Complete Ready to
Connect to Well and
Plumbing System**

Here is a system that you can use whether you have city water supply or not. The pressure is at all times sufficient to throw a stream of water 25 to 30 feet in the air. This gives you valuable fire protection and enables you to sprinkle the lawn, wash your car, etc., regardless of how slack the city pressure may be. Or this system may be used to furnish a supply of soft cistern water for washing or bathing.

The automatic attachment causes the pump to always keep a certain amount of pressure in the tank. Whenever a quantity of water is drawn from the tank, the pump immediately refills the tank and maintains a high pressure. Pump has a capacity of about 200 gallons per hour.

A big feature about this outfit is that it comes complete, ready to install. It is compact and built so that it takes up little room. Works at all times with little or no attention. It comes in two sizes—1/6 H. P. motor with 66-gallon tank and 1/4 H. P. motor with 83-gallon tank.

The larger size is suggested as you will then always have plenty of pressure and an abundance of water for any purpose. Outfit furnished complete with vertical

tank and with all fittings as shown. Suitable for wells where the water is not more than 25 feet below pump. For either hard or soft water. Air is automatically pumped into tank for sufficient air pressure.

Be sure to state whether the electric current is direct or alternating and give the voltage. If alternating current, give phase and cycle also. The local electric company will give you this information. The cost for operating this outfit is approximately 10 cents per 1,000 gallons. This is much less than the average city water rate.

Outfit for Small Family

Outfit complete, as shown, with 66-gallon galvanized tank, 1/6 H. P. motor and foot valve strainer. Pipe is extra. Shipping weight, 450 pounds.

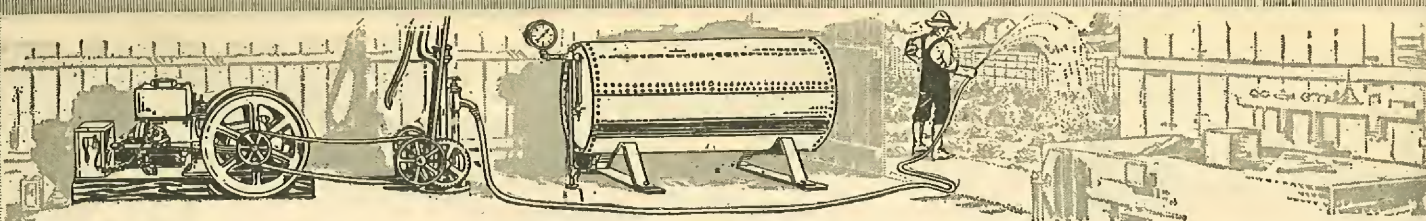
283T8217—For direct current. Price,\$156.50
283T8218—For alternating current. Price, 183.50

Outfit for Large Family

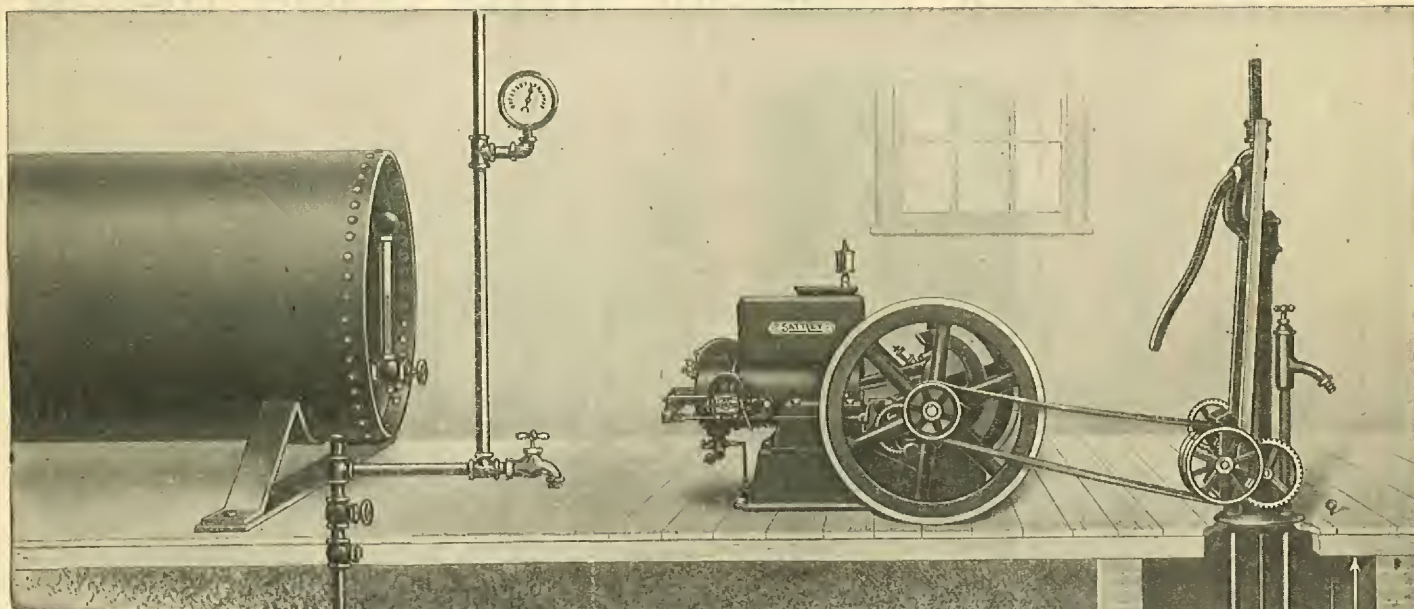
Outfit complete, as shown, with 83-gallon galvanized tank, 1/4 H. P. motor and foot valve strainer. Pipe is extra. Shipping weight, 500 pounds.

283T8219—For direct current. Price,\$167.00
283T8220—For alternating current. Price, 196.00

Pump and Motor shipped from factory. Tank and Fittings from New York Store.



Springbrook Engine-Driven Water Supply System



\$149⁵⁰ Complete

With 1½ H. P. Engine,
Tank and Trimmings

BELOW FROST LINE

The Engine—our Famous Racine-Sattley, 1½ H. P. size. Cylinder bore, 3½-inch by 4-inch stroke. Normal speed of engine, 500 revolutions per minute. Rated 1½ horsepower. Driving pulley is 6 inches in diameter, with 4-inch face. Each engine is furnished complete with batteries, spark coil, gasoline tank, needle gasoline feed valve, and is all complete, ready for immediate starting when it reaches you, with full directions.

The Pump is a heavily built, three-way, anti-freezing, deep well force pump, with wind-mill head, to which pump jack can be readily attached. Can be used in open, drilled or tubular well. Regularly fitted with 2½x12-inch brass lined cylinder. Capac., 3 gal. per min.

It is fitted with three-way distributing valve, so that water can be drawn at spout which is fitted with hose connection; or it can be directed through underground piping to pneumatic storage tank in basement of residence, any distance away. Air is supplied to tank by means of hydro-pneumatic cylinder which is attached to force pump standard just below set length.

The Pump Jack is our type B pump jack, back geared 9¼ to 1, bringing the speed down to match the driving speed of the engine. Can be belted direct to engine, as shown in illustration. Has two sets of driving gears, which give it double strength. Adjusted for 5-inch stroke.

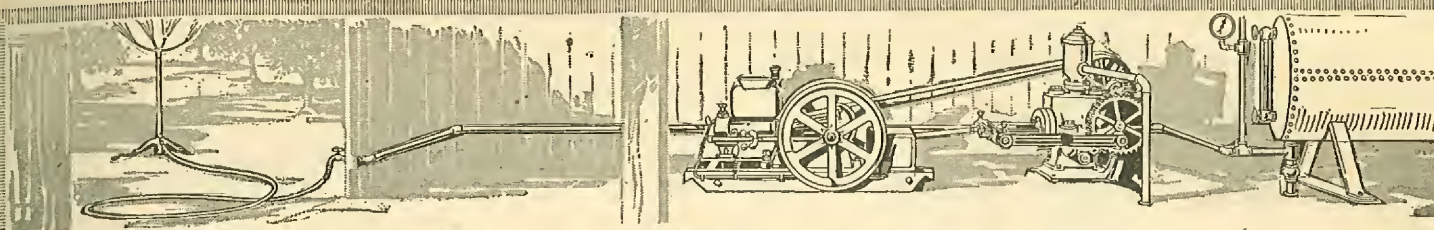
The Tank is one of our Lakeside Pneumatic Water Storage Tanks. Tanks are very strongly built, of 3/16-inch sheet steel with 5/16-inch heads. Painted black. Tested to 125 pounds pressure. Horizontal seams are double riveted. Can be furnished with tappings to stand vertically or to lie horizontally. In ordering, be sure to state which style of tank is wanted. Horizontal tank regularly furnished. NOTE—We furnish Blue-print and instructions.

The Outfit is furnished complete with all valves and gauges, as shown in illustration. Also one 2½x12-inch brass-lined pump cylinder, and necessary valves and connections, for special air attachments, and 16 feet 2-inch double ply, canvas-stitched belt to connect pump jack with engine. No piping, pipe fittings or pump rod are included. These will come extra, and the amount required will depend upon depth of well and tank.

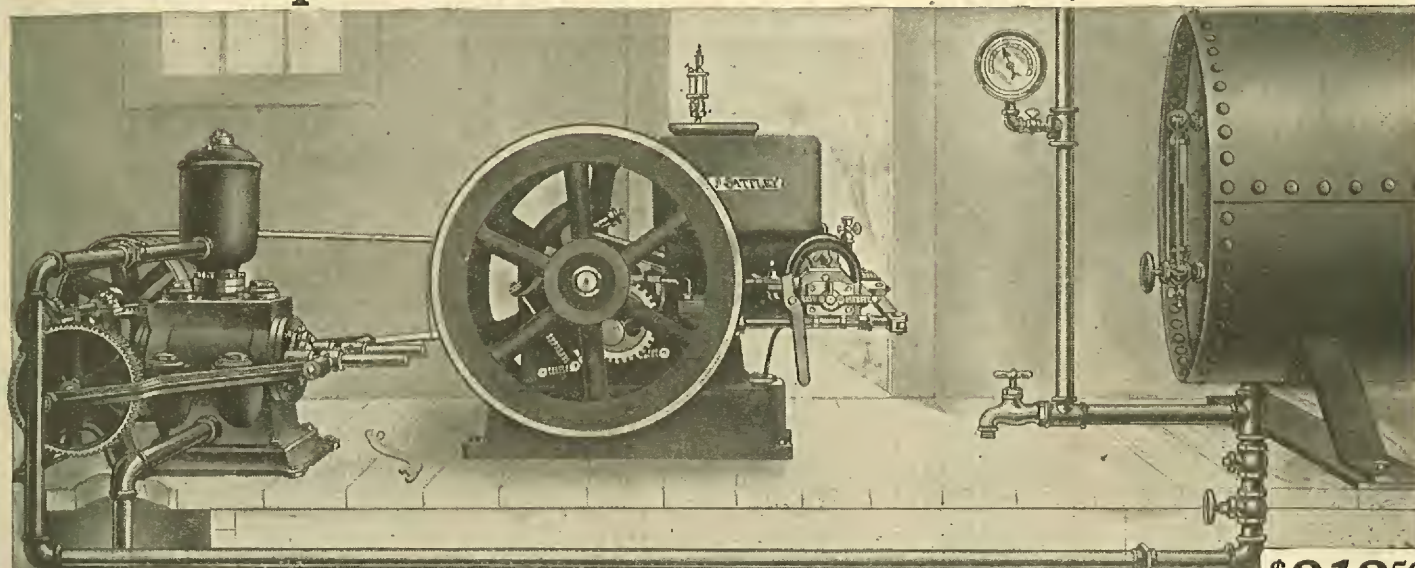
Article Number	Total capacity Tank gallons	Working capacity Tank gallons	Shipping Weight Engine pounds	Shipping Weight Pump pounds	Shipping Weight Fittings pounds	Shipping Weight Tank pounds	Shipping Weight Pump Jack pounds	Diameter Tank inches	Length Tank feet	Price, Complete
281T8230	295	175	225	110	50	700	125	30	8	\$149.50
281T8231	365	250	225	110	50	870	125	30	10	160.50
281T8232	525	375	225	110	50	1050	125	36	10	195.40

NOTE—Pump and fittings will go promptly from New York. Engine will be shipped from warehouse at Albany, N. Y. Tank is shipped from factory. Pump jack is shipped from factory.

Tank can be located any desired distance away from pump.



Municipal Junior Water Supply System



BELOW FROST LINE

\$212⁵⁰_{up}

NOT OVER 25 FEET TO WATER

The engine is our Racine-Sattley, $2\frac{1}{2}$ H. P.—adjustable speed. It is hopper cooled, with full water circulation around entire cylinder head as well as cylinder body, rendering overheating absolutely impossible. Both exhaust and inlet valves are mounted in Water Cooled head, insuring absolutely tight closing, even wear and free accessibility.

So simple that a woman can easily run it. Furnished with batteries and spark coil. Equipment includes one can gas engine oil; one zinc oil can; one 1-pound can of cup grease, and double-end wrought steel wrench.

Full directions for starting and operating packed with each engine. Diameter of cylinder, 4 inches with 6-inch stroke. Normal speed, 475 revolutions per minute. Size of driving pulley, diameter, 8 inches; face, 4 inches. Shipping weight, about 500 pounds.

The tank is our regular Lakeside Pneumatic Steel Pressure Tank. Made of regular tank plate steel. Body plates are $\frac{3}{16}$ -inch thick and heads are $\frac{5}{16}$ -inch thick. Tanks are built with double-riveted, horizontal seams and are fully tested under 125 pounds of air pressure, and are absolutely air-tight.

Owing to their large capacity, all tanks are tapped to lie horizontally. We can, however, furnish tank with tappings to stand vertically, if desired. Vertical tank may be mounted on steel supports which are furnished, or it may be buried in ground below frost line.

The pump is our Geyser (Senior) double-acting piston, belt-driven power pump. It will pump against any head of water up to 75 pounds pressure per square inch, which is equal to a water head of 175 feet elevation.

A correct proportion of air is pumped into the pneumatic storage tank, along with the water. Prevents water-logging. Pump is back geared 5 to 1. Has tight and loose pulleys, diameter, 15 inches, face, $2\frac{1}{2}$ inches. Pump is equipped with large rubber disc valves on bronze ground seats, held in place by strong coil springs.

The cylinder of pump is brass lined, and provided with large suction valves just below the cylinder bore.

May be connected directly to driving pulley of engine. Size of cylinder bore, 3 inches, with 5-inch stroke. Capacity, 12 gallons per minute.

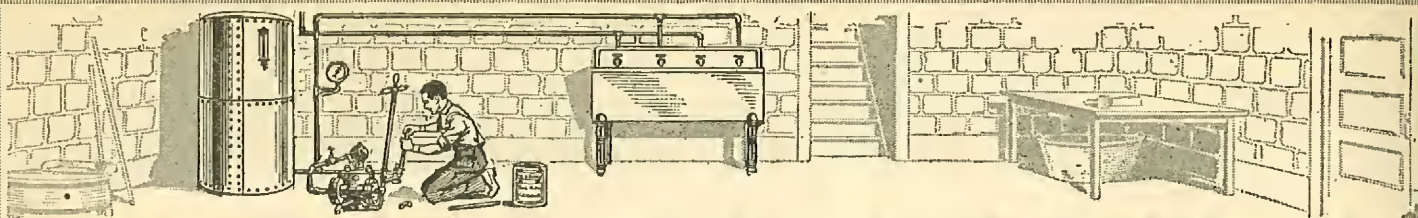
We will include with the pneumatic water supply system all necessary fittings and 16 feet of 2-inch double-ply, stitched, canvas belt, for transmitting power from engine to pump. We do not furnish any of the piping, or pipe fittings required to make connections, as the amounts vary in different outfits, and we have, therefore, omitted these.

When you send us your order, let us know where the pump and engine will be located, how far away the tank will be placed, and how far it will be from the pump to your well or cistern where the supply of water is obtained. With a sketch or diagram giving us this information we will have our engineers make such additions to your order as may be necessary to provide the proper amount of piping, pipe fittings, etc., and this will be added at our Catalogue prices. Full diagram, plans, and instructions, covering the entire installation of this system, are furnished with every outfit.

Pump need not be located directly over the well. It can be located wherever most convenient.

Article Number	Size Tank Feet	Actual Capacity Tank Gallons	Working Capacity Tank Gallons	Capacity Pump Gallons Per Minute	Size Suction	Size Discharge	Shipping Weight, Tank Pounds	Shipping Weight, Engine, Pump, Fittings, Pounds	Price, Complete
281T8375	2 $\frac{1}{2}$ x 10	365	275	12	1 $\frac{1}{2}$	1 $\frac{1}{2}$	870	700	\$212.50
281T8376	3 x 10	525	375	12	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1050	700	237.50
281T8377	3 x 12	630	500	12	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1200	700	253.50

NOTE—Tank is shipped from factory. Engine is shipped from warehouse at Albany, N. Y. Pump is shipped from factory. Fittings shipped promptly from stock at New York.



Our Water Supply Apparatus is Strong and Dependable

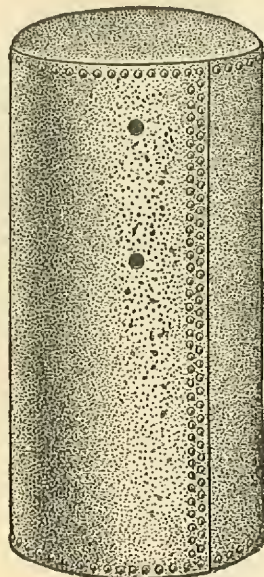
Steel Tanks for Pneumatic Water Supply Systems

281T8205—Black.

281T8206—Galvanized.

Our steel Pneumatic Tanks listed below are absolutely dependable for a working pressure of 75 pounds. Tested at 125 pounds. Actual capacity is about one-half more than working capacity.

We can furnish these tanks with tappings arranged for the tank to stand vertically or lie horizontally. When tank stands vertically water gauge tappings are placed on side. On the horizontal tanks the water gauge tappings are in the concave head. In ordering be sure to state which style tapping is wanted. For Tanks with man-holes in heads, add \$15.00 extra.

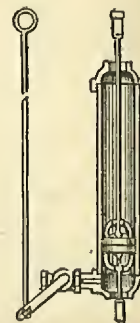


Diameter Inches	Length Feet	Thickness, Inches		Shipping Weight Pounds	Working Capacity in Gallons	281T8205 Black Freight Paid		281T8206 Galvan. Freight Paid	
		Shell	Heads						
24	6	3-16	5-16	445	100	\$4	\$67.50	\$6	\$67.50
24	8	3-16	5-16	560	130	\$4	\$85.75	\$6	\$85.75
24	10	3-16	5-16	675	160	\$4	\$104.00	\$6	\$104.00
30	6	3-16	5-16	495	110	\$4	\$73.25	\$6	\$73.25
30	8	3-16	5-16	560	130	\$4	\$85.75	\$6	\$85.75
30	10	3-16	5-16	700	160	\$4	\$104.00	\$6	\$104.00
30	12	3-16	5-16	870	200	\$4	\$122.25	\$6	\$122.25
30	14	3-16	5-16	900	230	\$4	\$130.50	\$6	\$130.50
36	6	3-16	5-16	750	150	\$4	\$92.75	\$6	\$92.75
36	8	3-16	5-16	900	180	\$4	\$111.00	\$6	\$111.00
36	10	3-16	5-16	1050	210	\$4	\$129.25	\$6	\$129.25
36	12	3-16	5-16	1200	240	\$4	\$147.50	\$6	\$147.50
36	14	3-16	5-16	1400	280	\$4	\$173.75	\$6	\$173.75
42	8	1-4	3-8	1450	335	\$4	\$182.25	\$6	\$182.25
42	10	1-4	3-8	1650	385	\$4	\$200.50	\$6	\$200.50
42	12	1-4	3-8	1900	440	\$4	\$226.75	\$6	\$226.75
42	14	1-4	3-8	2200	500	\$4	\$253.00	\$6	\$253.00
48	12	1-4	3-8	2320	555	\$4	\$261.50	\$6	\$261.50
48	14	1-4	3-8	2610	610	\$4	\$287.75	\$6	\$287.75
48	16	1-4	3-8	2900	670	\$4	\$314.00	\$6	\$314.00
48	18	1-4	3-8	3600	810	\$4	\$390.25	\$6	\$390.25
48	20	1-4	3-8	3950	880	\$4	\$426.50	\$6	\$426.50
48	24	1-4	3-8	4650	1010	\$4	\$502.75	\$6	\$502.75

Shipped direct from factory in Northern Illinois.

Lakeside Hydro- Pneumatic Cylinder

\$9⁵⁰



This cylinder is placed just beneath set length of pump standard. It draws in air and forces it with the water into the Pneumatic Water Supply Tank, thereby maintaining a pressure in the tank.

Cylinder is made of cast iron, brass lined. Furnished complete with 7-foot rod to extend through pump platform for operating cut-off cock, which throws cylinder into or out of action to furnish air as required. Cylinder has 10-inch stroke and can be used with water pumping cylinders having 6, 8 or 10-inch stroke.

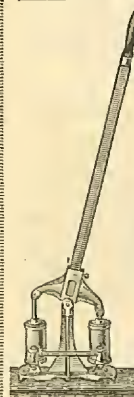
81T8228—Size, 3-inch. Shipping weight, 25 pounds. Each.....\$9.50

81T8229—Size, 3 1/2-inch. Shipping weight, 30 pounds. Each.....\$12.00

Double Cylinder \$1250 Air Force Pump

Double-Acting. Discharges a large, continuous volume of air, and will develop a pressure up to 100 pounds. Cylinders are made of heavy, solid brass, seamless tubing, with brass caps mounted on trunnions on cast iron base. Cylinders oscillate with lever handle. Pumps air on every stroke, both forward and backward. Makes an ideal pump for testing purposes, and for use as an auxiliary in connection with pneumatic water supply systems for increasing the pressure.

183T5951—Pump as described, fitted for 1/2-inch iron pipe connection. Shipping weight, 40 pounds. Each.....\$12.50



Geyser Senior Double Acting Power Pump

Description—Pump is powerful, double acting, and designed for durability, strength, and capacity, with easy access to all parts.

Valves—Are rubber discs, resting on brass seats, and having brass wire springs to hold them in position.

Valve Seats—Are of brass, screwed into position.

Plunger—Has two crimps made of leather, especially treated for this use. The piston rod is steel, brass case. On the No. 2 and 3 sizes, the diameter of piston rod is 1/2 inch; on the No. 4 and 5 sizes, the diameter of piston rod is 1 inch.

Side Arms—Give a straight thrust from the crank pins to the cross head.

Crank Pins—Are constructed of the best grade steel, especially treated for this use.

All of these Pumps have double gears, protected by guards.

Bearings—Are all babbitted with high-grade metal.

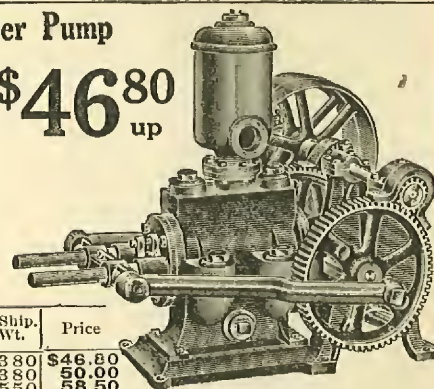
Lubrication—All bearings are provided with oil pockets.

The side arms and gears are provided with oil cups.

Article Number	Size	Dia. and Stroke of Cylinder	Suct. Pipe 1½"	Disc. Pipe 2"	Cap. Gal. per Hr.	Pulleys	Back Geared	Ship. Wt.	Price
288T4400	2	2 ½ x 5	1 ½	1 ½	500	2 ½ x 14	4 to 1	380	\$46.80
288T4402	3	3 x 5	1 ½	1 ½	720	2 ½ x 14	4 to 1	380	\$50.00
288T4404	4	4 x 5	2	2	1300	4 x 16	4 to 1	550	\$58.50
288T4406	5	5 x 4	2	2	2000	4 x 16	4 to 1	550	\$62.40

Shipped from factory, in Ohio

\$46⁸⁰ up



Water Relief Valve



83T5548—Solid Bronze. With hand wheel attachment for adjusting the pressure at which the valve automatically discharges water. Used in connection with power pumps, windmill driven pumps, etc., or on water supply systems where water is discharged in tank against pressure. A valve of this kind is absolutely essential on any power-driven outfit. Prevents excess pressure being developed in tank. Set at factory to blow off at 100 pounds.

Pipe size, in. 1/2 1 1/4 1 1/2 2
Ship. wt., lbs. 1 2 4 8
Each\$4.35 \$5.22 \$6.52 \$7.85 \$11.75

Gauge Cock

83T5557—Brass gauge cock. For 1/2-inch iron pipe connection. Weight, 3 ounces. Each.....25c

Gauge Glass

83T5571—Scotch glass tubes. For water gauges 5/8-inch outside diameter. Shipping weight, dozen, 2 to 2 1/2 pounds.

Length, 12 inches. Dozen.....\$1.25
Length, 14 inches. Dozen.....1.45
Length, 15 inches. Dozen.....1.60

State size wanted.



Pressure Gauge

83T5554—For water supply systems. These gauges are for registering pressure up to 100 pounds. They are strongly made and will stand long service. Japanned steel case. Single spring type, carefully tested and accurate. For 1/2-inch iron pipe connection.

Size, 3 1/2 in. Ship wt., 2 1/2 lbs. Each..\$1.89

Size, 4 1/2 in. Ship. wt., 3 1/2 lbs. Each.. 1.92

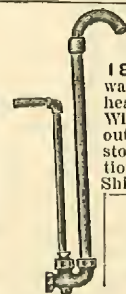
Size, 5 in. Ship. wt., 4 1/4 lbs. Each.. 1.96

Water Gauge



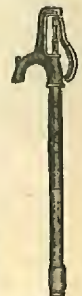
83T5562—With solid brass gauge cocks. For use in connection with our pneumatic water supply systems. Can also be used on high or low pressure steam boilers, or any place where a water gauge is used. Upper fitting has no hand valve, to avoid air leakage around stem. Safety ball valve inside acts if glass should be broken. Gauge cocks are for 1/2-inch iron pipe thread. Glass, 5/8 x 12 inches. Shipping weight, complete, 2 1/4 pounds. Each.....\$1.40

Lever Handle Hydrant



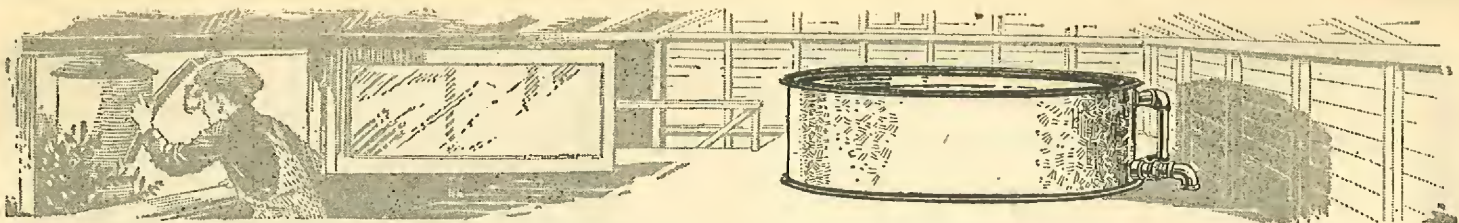
183T6892—With brass stop and waste valve, shut-off rod and goose-neck head for 1/2 inch hose connection. When hydrant is shut off, water drains out. Connects below frostline. For stock watering, lawn sprinkling, irrigation, etc. Length, four feet. Shipping weight, 15 lbs. Each.....\$3.00

Quick Opening Water Hydrant



183T6291—Quick opening lever. Renewable leather valve seats. Head casting and handle, malleable iron. Upright is wrought pipe. Anti-freezing. Hose connection on spout.

Pipe Size	Length, Feet	Ship. wt., Pounds	Each
3/4 in.	4 1/2	15	\$5.95
1 in.	6 1/2	25	6.45
1 1/4 in.	8 1/2	20	6.55
1 1/2 in.	6 1/2	30	7.05



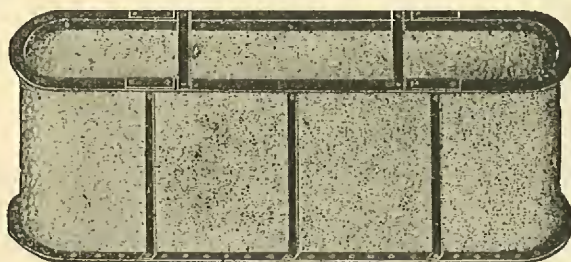
Galvanized Steel Tanks for All Purposes

The factory that makes them was started over 20 years ago. The first tanks made are still in use on farms throughout the country and do not show any material signs of wear. Our tanks are still made of the high-grade materials that were used 20 years ago and every tank will give lasting satisfaction.

All tank measurements are outside measurements. Capacities are standard ratings based on outside measurements, and 31½ gallons per barrel.

For Storing Water in Attic or Barn \$10.85 and up
Round End Tanks, Our Leader

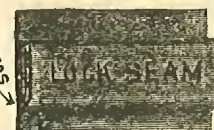
The advantage of a long tank of this kind is that it distributes the weight of the water over a greater area. There is no chance of the joists bulging downward, causing cracking of plaster, etc., when placed over bottom floor partitions.



You will note that we ship these tanks either set up or knocked down. If your house is not yet built, you can have the tank shipped set up.

If there is not an opening to your attic large enough to admit the tank order it shipped knocked down and build it in the attic. Tanks are built of No. 20 gauge galvanized steel, heavily reinforced. For Pipe Connections, Covers and Faucets, see prices under Round Tanks.

Rust Proof Lock Seams are used in all the small tanks, and in the riveted seams of the large tanks special tinued rivets are used, thus making our tanks as near rust-proof as it is possible, because no liquid can come in contact with black iron.



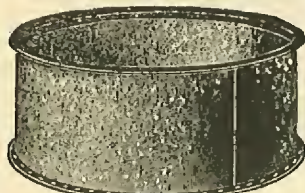
Side sheet is flanged out 1-inch and riveted with the bottom sheet between two bands of steel each ½-inch thick.

Tanks 4 and 6 feet long have one angle brace across top and on each side; except the 2x2x4 foot tank does not have side braces; tanks 8 feet long have one brace across top and two on each side; on tanks 10 feet long, two braces across top and three on each side; on tanks 16 feet long three braces across top and five on each side.

Dimensions, Weights and Prices

Art. No.	Width	Height	Length	Cap. Bbls.	Ship. Wt. Lbs.	Price
288T8016	2 ft.	2 ft.	4 ft.	3	65	\$10.85
288T8018	2 ft.	2 ft.	6 ft.	4½	90	14.10
288T8020	2 ft.	2 ft.	8 ft.	6	120	17.20
288T8022	2 ft.	2½ ft.	8 ft.	8	147	18.55
288T8024	2½ ft.	2 ft.	8 ft.	8	147	18.70
288T8026	3 ft.	2 ft.	8 ft.	9½	150	20.15
288T8028	4 ft.	2 ft.	8 ft.	12½	155	22.85
288T8030	4 ft.	2½ ft.	8 ft.	15½	174	25.40
288T8032	4 ft.	3 ft.	8 ft.	19	212	35.35
288T8034	4 ft.	3 ft.	10 ft.	12½	165	24.10
288T8036	3 ft.	2½ ft.	10 ft.	15½	190	30.30
288T8038	3 ft.	3 ft.	10 ft.	18½	215	33.90
288T8040	4 ft.	2 ft.	10 ft.	16½	205	31.25
288T8042	4 ft.	3 ft.	10 ft.	21	255	42.20
288T8044	4 ft.	3 ft.	16 ft.	27½	320	46.65

Shipped from factory in Northern Indiana.



Round Water Storage Tanks

As the force or pressure of water is equal in all directions, the circular design gives the strongest possible construction to withstand this pressure.

Made of regular No. 20 United States Standard Gauge Galvanized Steel. We have found this gauge to be sufficiently heavy for all practical use. If No. 18 Gauge Steel is wanted, we can furnish it at 20 per cent above prices given below. Shipped set up if not ordered knocked down.

Art. No.	Diam.	Hgt., Ft.	Cap. Bbls.	Ship. Wt.	Price
288T8152	3 ft.	2	3½	59 lbs.	\$10.75
288T8154	4 ft.	2	6	89 lbs.	14.00
288T8156	4 ft.	2½	7	96 lbs.	15.55
288T8158	4 ft.	3	9	115 lbs.	17.15
288T8160	4 ft.	3½	12	127 lbs.	20.10
288T8162	5 ft.	3	12½	129 lbs.	21.85
288T8164	5 ft.	3½	14	146 lbs.	24.30
288T8166	5 ft.	4	19	160 lbs.	29.65
288T8168	5 ft.	4	14	135 lbs.	22.70
288T8170	6 ft.	4	17	150 lbs.	27.50
288T8172	6 ft.	4	20	173 lbs.	31.25
288T8174	6 ft.	4	27	220 lbs.	40.20
288T8176	6 ft.	4	34	260 lbs.	46.80

288T8064—Hinged Covers to fit.
Per square foot.....29c
288T8054—For 18-gauge steel, add 20 per cent to above prices.
288T8058—Pipe connections, ¼, 1 or 1½-in. State size. Each.....\$0.75
288T8060—For ½ or ¾-in. Faucet, add.....2.75
288T8062—For 1-in. Faucet, add.....3.57
Shipped from Factory in Northern Indiana.

Note: Because of the unstable conditions existing in the iron and steel market, the prices quoted are subject to market changes.

Square End Steel Tanks



Made of No. 20 U. S. Standard Gauge Steel. 6-ft. tanks furnished with angle brace across top and one brace each side; 8 ft. in length furnished with one angle brace across the top and two angle braces on each side; on 10-ft. tank two angle braces across the top and three on each side.

Art. No.	Width	Height	Length	Cap. Bbls.	Ship. Wt. Pounds	Price
288T8094	2	2	4	3¾	78	\$11.95
288T8096	2	2	6	5¾	108	15.45
288T8098	2	2	8	7¾	140	18.95
288T8100	2½	2	8	9¾	167	20.35
288T8102	2½	2½	8	12	167	22.65
288T8104	3	2	8	11½	154	22.65
288T8106	3	2	8	15	183	26.35
288T8108	3	2	10	14	195	34.65
288T8110	4	2	10	19	225	34.30

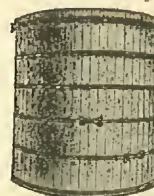
Shipped from Factory in Northern Indiana.

For prices on 18-gauge steel, covers, pipe connections and faucets, see list under round tanks.

Round Wood Storage or Cistern Tanks \$21.65 up

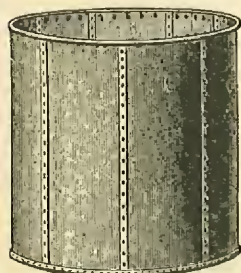
Freight Paid

Always shipped knocked down. Made of 1½ or 2 in. cypress only. All made with straight staves. Steel hoops regularly furnished are flat, but round ones can be had at same prices if specified in order. Hoops fitted with adjustable tank lugs. Shipping weights range from 400 to 1,300 lbs. Equipped with three to six hoops, according to size.



Art. No.	Length of Stave Feet	Diam. of Bottom Feet	Cap. Bbls.	Price 1½ in. Cypress	Price 2 in. Cypress
288T8350	4	6	22	\$21.65	\$26.30
288T8352	5	6	29	26.30	31.85
288T8354	6	6	35	24.80	29.75
288T8356	6	8	51	28.90	37.30
288T8358	6	8	51	40.90	50.70
288T8360	8	10	98	55.75	68.00
288T8362	8	6	47	38.00	45.45
288T8364	8	8	86	52.00	66.55
288T8366	8	10	136	71.85	85.30

Shipped from Factory in Indiana.



Round Steel Storage Tanks

All holes are punched. Solder and rivets, also full instructions accompany each tank, so that it is simple and easy to set them up. We quote No. 18 gauge steel, but on the larger sizes we do not recommend less than No. 16. Can also furnish in 16 gauge at 20 per cent advance over 18 gauge price. Pipe connections, covers and faucets, extra, same as for round tanks.

Diam. Feet	Height Feet	Capacity Barrels	Art No.	Ship. Wt. 18-Gauge	Price 18-Gauge
6	6	41	288T8134	330 lbs.	\$62.00
6	8	54	288T8136	430 lbs.	76.75
8	8	60	288T8138	460 lbs.	80.10
8	10	72	288T8140	540 lbs.	94.20
10	10	96	288T8142	620 lbs.	115.25
		150	288T8144	840 lbs.	159.70
		180	288T8146	1,020 lbs.	187.50

Shipped from Factory in Northern Indiana.

Tank Covers. Hinged

Galvanized Steel. Can be furnished with any of our steel tanks. Give size wanted. To find the number of square feet in a round cover, multiply the diameter by the diameter.

Example—A cover 6 feet in diameter would contain 6 times 6, or 36 square feet. Ship. wt., about 1½ lbs. per square ft.
288T8000—Per square foot....29c
288T8002—Per square foot....29c
Shipped from Factory in Northern Indiana.



Everyone Enjoys the Conveniences of a Modern Bathroom

The comfort of your home will be complete when the bathroom is installed. Every fixture is easily kept bright, clean, and attractive.

The bathroom will add greatly to the health and happiness of the entire family.

Your wife will find it a great comfort in caring for the youngsters. A portable tub in a drafty room is always unsatisfactory, and then, too, there is danger of the baby contracting a cold that may prove serious.

In a properly heated and conveniently arranged bathroom this danger is avoided, and the irritating spilling and slopping of water is done away with.

Instead of regarding it as an ordeal to be endured with pouting protests, she will observe that the youngsters are looking forward with delight to bathing time in a bathroom with modern fixtures.

The pleasure in the running hot and cold water of the lavatory, the shower bath and tub and the well-placed mirror is only exceeded by the feeling of satisfaction in the possession of the many conveniences of the modern bathroom.

The cost is surprisingly low. Look over the complete outfits on the pages that follow. If you wish a complete estimate, simply fill out the Estimate Blank you will find in this catalogue and send it to us today.



A Convenient Kitchen

—that phrase speaks volumes for the busy housewife.

It contains a spacious sink with hot and cold water—lots of room for draining dishes and a deep apron that prevents the spilling or slopping of water.

A modern cooking range with a water front gives an ample supply of warm water. The warming closet above the stove is placed at the right height.

The cabinet contains everything that you might need about the cooking. The pans, the flour, the baking powder, and the biscuit cutter are all there at hand when you need them.

There need be no more carrying of water from the well or laborious pumping.

Dippers and water pails do not clutter the convenient kitchen.

The well planned arrangement of the modern kitchen each day eliminates hundreds of steps, and every housewife knows what that means.

It means more time for other things, better health, and increased happiness. Drudgery need no longer be associated with housework.

You can have such a kitchen in your home. The plumbing is the greatest help. Let our engineers plan and estimate it for you—you will be surprised at the low cost.

Simply fill out the Estimate Blank enclosed in this book and send it to us. You incur no obligation.



Make Washday Easier

There is no reason to dread it if your home has modern laundering conveniences.

You can have all the hot and cold water you want by simply turning a faucet.

The stationary tubs are a source of great satisfaction. They are made of stoneware and the edges are metal bound.

You may have separate compartments for suds and for rinsings. They can be filled at exactly the right temperature by means of the faucets which furnish both hot and cold water.

When you have finished using the tubs, a pull at the stopper chain empties them quickly.

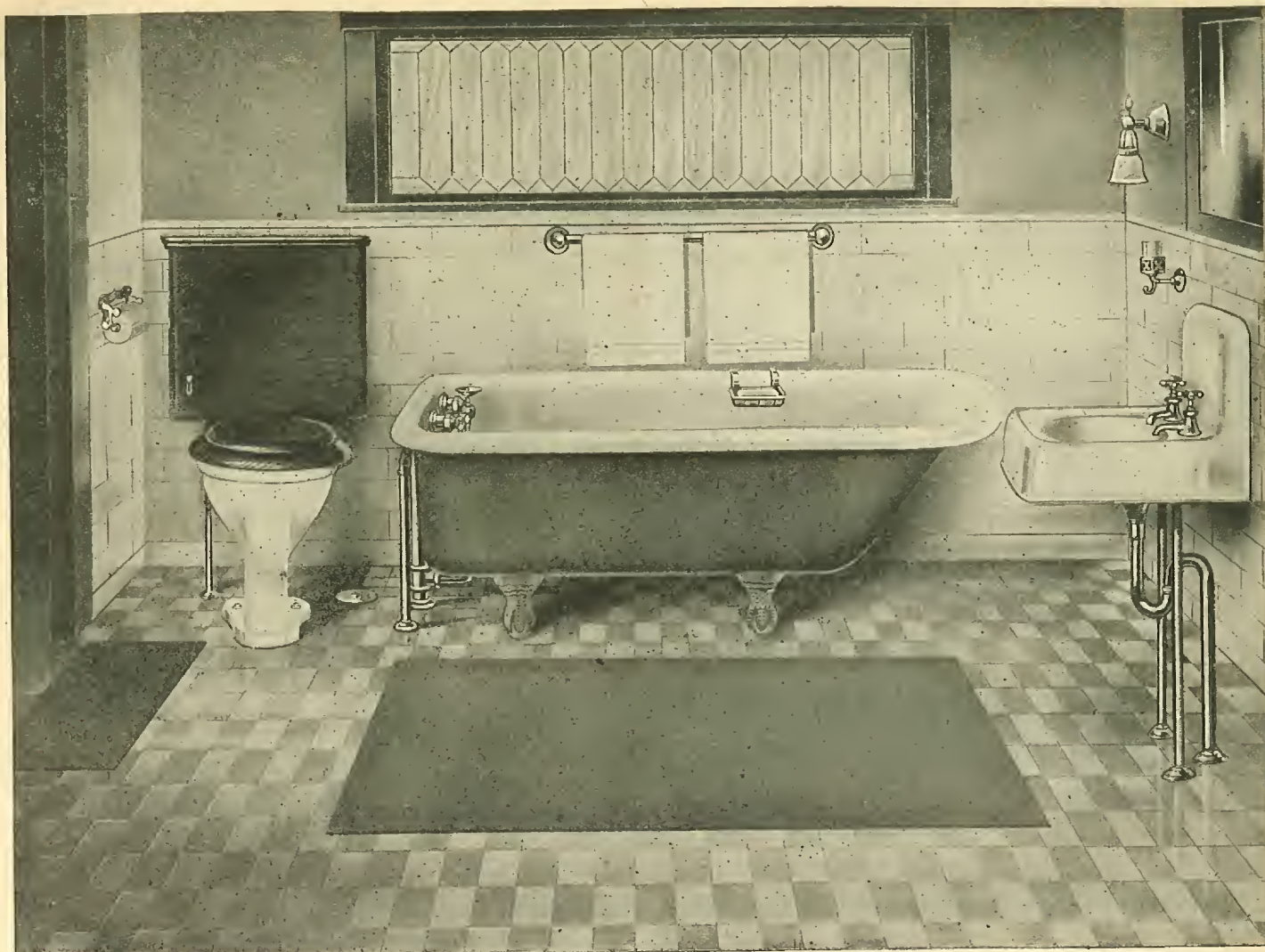
The washing machine is always ready. The clothes are thoroughly cleaned, without the wearing and fraying that results from rubbing.

The carrying of water into the kitchen, filling of the tubs, the spilling and splashing, and the resulting confusion is a dilemma that has passed.

You need such a laundry in your basement, and it won't cost you much.

Fill out the Estimate Blank enclosed in this book and send it in for estimates. We maintain a first class free Engineering and Estimating Bureau for our customers. We include complete, easy-to-follow plans with your order.





\$60.75

Colonial Bathroom Outfit

\$60.75

Our Colonial Bath Room outfit has been designed to meet the demand for a low-priced yet good-quality outfit.

The tub has attractive nickel-plated fittings, beautifully designed. Lavatory is large with heavy flat rim. The syphon wash-down closet is very popular and serviceable, always flushing thoroughly. An outfit that will give complete satisfaction.

181T6305—Outfit complete, with 5-foot tub. Ship. wt., about 575 lbs. Price.....**\$60.75**

Note.—The price quoted is for lead pipe waste connections. If wanted for iron pipe waste, mention this and add \$1.25. Waste connection of bath tub takes 1½-inch pipe; of lavatory, 1¼-inch pipe. Supply pipes to closet and lavatory take ⅜-inch pipe; to bath tub, ½-inch pipe.

If 4½-foot tub is wanted, mention this and deduct... **\$0.25**

If 5½-foot tub is wanted, mention this and add... **2.75**

Small accessories not included. See page 51.

The Bath Tub

Genuine white porcelain, enameled on the inside, and over the 3-inch roll rim. The tub is cast from the best grade of gray iron.

Width of tub, about 30 inches, extreme outside measurement. The trimmings include combination Fuller double bath cock, with hot and cold indexed handles; connected 1½-inch waste and overflow with slip joint connections, and ½-inch supply pipes to the floor. All pipes are fitted with special floor flanges as shown. All trimmings heavily nickel-plated.

Tub is mounted on ornamental cast iron legs and is a real ornament in any bathroom. Outside of tub is painted with one coat of iron filler paint. Ship. wt. of 5-foot size, about 350 pounds.

The Closet

New design, low-tank syphon wash-down type. Capacity of tank, 6½ gallons, insuring a positive flushing of the bowl.

It is finished in golden oak, with rounded corners. Tank is lined with heavy sheet copper. Fitted with latest type of adjustable compound ball cock, and rubber ball float flushing valve, with push-button action.

All trimmings, couplings and brass parts are heavily nickel-plated. Seat and cover are of built-up construction, strong and substantially made, finished in golden oak to match tank.

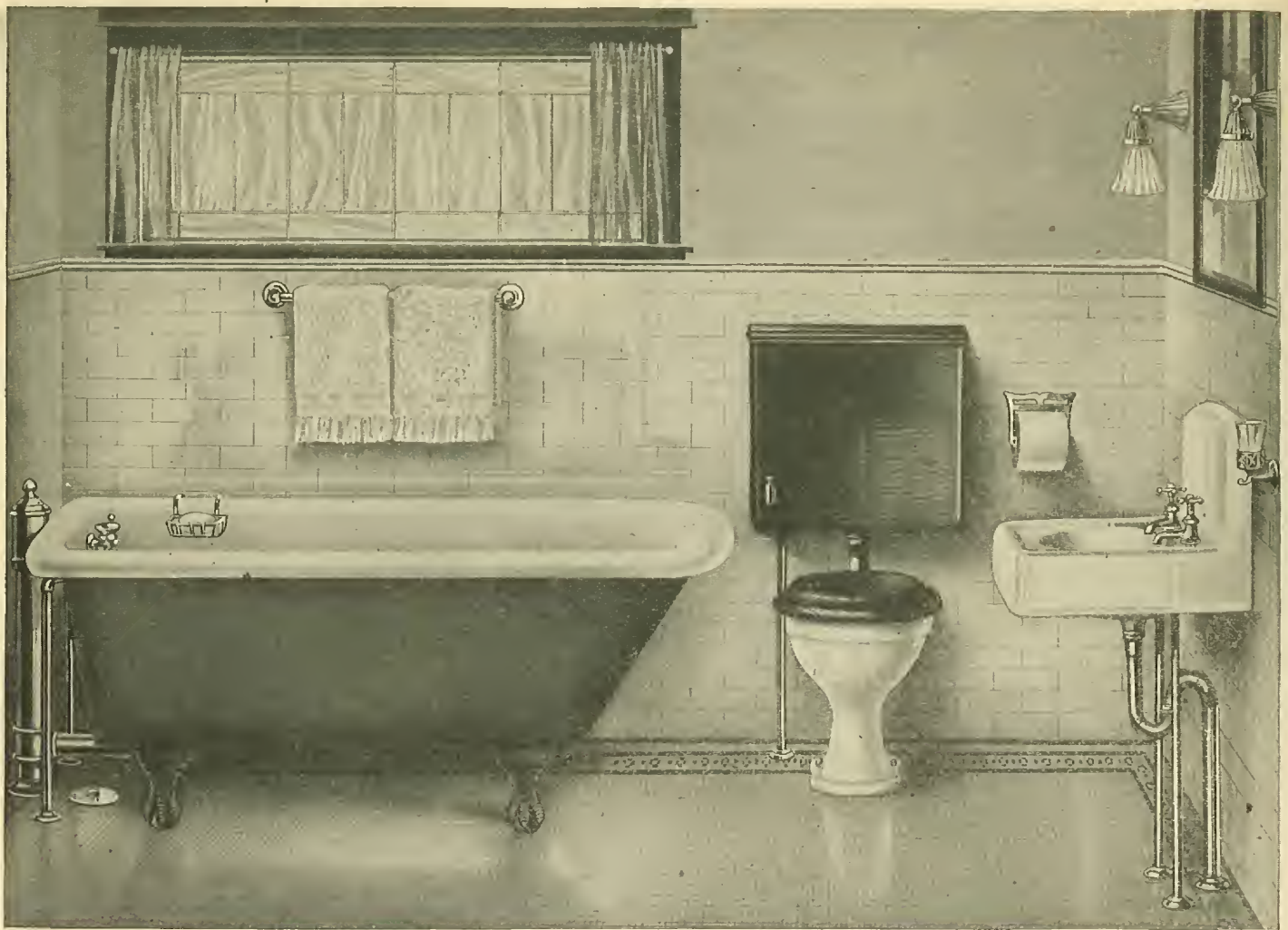
Bowl molded in one solid piece, from vitreous earthenware with heavy white-glazed finish inside and out. Distance from wall to center of outlet in bowl, 12 inches. Furnished with nickel-plated supply pipe to floor, and floor flange, and with nickel-plated floor screws and washers for attaching bowl to floor. Ship. wt., about 100 pounds.

The Lavatory

This lavatory is large and massive in appearance, with high back and deep apron, all cast in one solid piece. Length of slab, 24 inches.

Slab extends 18 inches out from wall, with roll edge and rounded corners, as shown in illustration. Inside measurement of bowl, 11x14 inches. Height of back, 10 inches. Fitted with special patent overflow, with chain and rubber stopper.

Lavatory is supported by heavy, cast-iron, concealed wall brackets, and is fitted complete with heavily nickel-plated Fuller basin cocks, nickel-plated S, trap, and straight supply pipes to floor, and nickel-plated floor flanges. Shipping weight, about 130 pounds.



\$65.25

Peerless Bathroom Outfit

\$65.25

Here is an outfit that will look very neat and artistic in the modern home. Note the Ideal waste on the bath tub—a distinctive feature doing away with the bothersome waste plug. The neat and massive lavatory makes the bathroom the more attractive. The closet is our latest low tank syphon Jet pattern, flushes quietly and positively. Every fixture is the result of our plumbing designers—an advance in design and service.

181T6307—Outfit Complete, with 5-foot tub. Shipping weight, about 600 pounds. Price.....**\$65.25**

Note—The price quoted is for lead pipe waste connections; iron pipe supply. If wanted for iron pipe waste, mention this and add \$1.25. Waste connection of bath tub takes 1½-inch pipe; lavatory, 1¼-inch pipe. Supply pipes to closet and lavatory take ¾-inch pipe; to bath tub, ½-inch pipe.

If 4½-foot tub is wanted, mention this and deduct...**\$0.25**

If 5½-foot tub is wanted, mention this and add.... **2.75**

Small accessories not included. See page 51.

The Bath Tub

Attractive design, cast from the best gray iron, covered with genuine white porcelain enamel inside and over roll rim. Painted outside. Ornamental iron legs.

A special feature of this tub is the Standing Roman waste, shown at back of tub. This does away with the necessity of a rubber stopper in the tub, which is often so troublesome and hard to keep in place. This Roman waste fitting is equipped with a China waste index, and is of heavy construction throughout—solid brass with nickel-plated finish.

Tub fitted with nickel-plated Fuller double bath cock and supply pipes to floor, with nickel-plated floor flanges for both waste and supply pipes. Width of tub, about 30 inches. Size of waste outlet on tub, 1½ inches; size of supply pipes, ½ inch. Ship. wt., of 5-foot size, about 350 pounds.

The Closet

The tank is of large capacity, golden oak finish, with rounded corners. Lined with heavy copper and fitted with improved ball float flushing mechanism, with push button.

Bowl cock is furnished with corrugated copper float. Compound lever type and will close against any pressure. Nickel-plated supply pipe to floor, with nickel-plated floor flange, and nickel-plated floor screws and washers.

Seat is strong and substantially built, with cover, golden oak finish, to match tank. Tank is connected to bowl with 2-inch nickel-plated offset elbow, with slip joint connection.

Bowl is high grade vitreous white earthenware, the latest syphon jet pattern, quiet and positive in its flushing action. Of heavy, massive construction, glazed inside and outside. Distance to wall from center of outlet in bowl, 14 inches. Ship. wt., about 120 pounds.

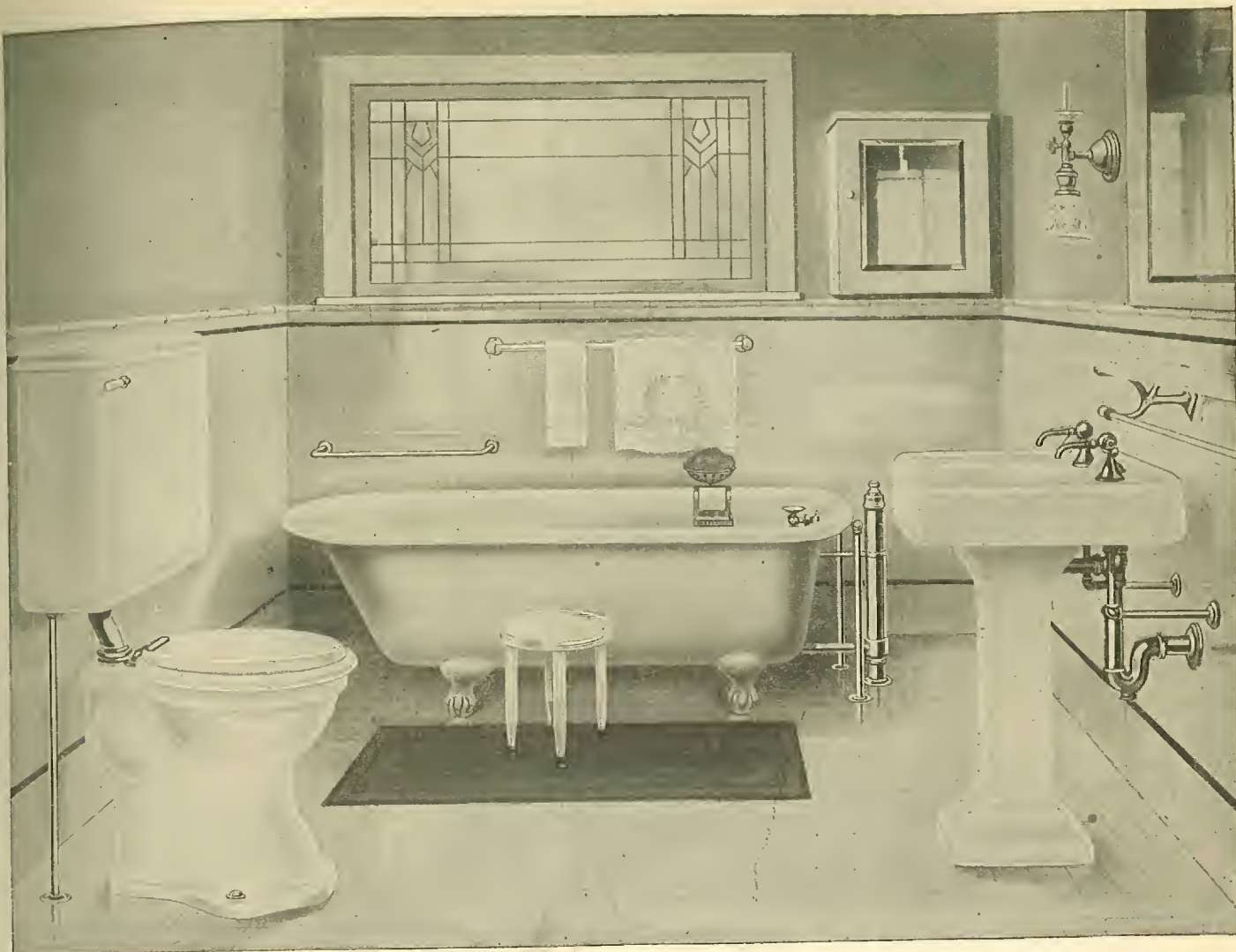
The Lavatory

This fixture is of cast iron, heavily coated with genuine white porcelain enamel, applied by a special perfected process.

Length of slab, 24 inches; it extends 18 inches out from the wall. Inside measurement of bowl, 11x14 inches. Height, of back, 10 inches.

Fitted with special patent overflow with chain and rubber stopper, supported by heavy cast iron concealed wall brackets, and is fitted complete with heavily nickel-plated compression basin cocks nickel-plated S trap, nickel-plated supply pipes to floor, and nickel-plated floor flanges.

Size of waste outlet, 1¼ inches. Size of supply pipes, ¾ inch. Shipping weight of lavatory, about 130 pounds.



\$91.95

Royal Bathroom Outfit

\$91.95

Fit for the finest mansions, yet at a price so low that anyone can afford it. Some of the finest homes in the country have this outfit installed. Notice the big heavy snow-white lavatory. The Bath Tub has the modern Ideal waste, so that you do not have to bother with a waste plug. Notice the white enameled closet tank and seat, and the syphon Jet Bowl, our latest design, flushes quietly and positively.

181T6303—Outfit complete, with 5-foot tub. Ship. wt., about 730 lbs. Price.....**\$91.95**
Small accessories not included See page 51.

Note.—The price quoted is for lead pipe waste connections; iron pipe supply. If wanted for iron pipe waste, mention this and add \$1.25. Waste connection of bath tub takes 1½-inch pipe; of lavatory, 1¼-inch pipe. Supply pipes to closet and lavatory take ¾-inch pipes; to bath tub, ½-inch pipe.

If 4½-foot tub is wanted, mention this and deduct...**\$0.25**

If 5½-foot tub is wanted, mention this and add.... **2.75**

If Ivory White finish is wanted on outside of tub, as described below, mention this and add..... **15.00**

The Bath Tub

An elegant, white porcelain enameled cast-iron tub. Equipped with latest type of Roman lifting waste fitting, with white China index, as shown. Does away with the bothersome rubber stopper.

Tub fitted with combination Fuller double bath cock and ½-inch supply pipes to floor, with floor flanges. Trimmings are of heavy brass construction and heavily nickel plated.

Tub is regularly finished on outside with one coat of iron filler paint, but can be furnished with rich white enamel finish on entire outside; trimmed with gold bands at extra charge, as noted above. Tub is about 30 inches wide, over rim. Width of rim, 3 inches. Shipping weight of 5-foot size, about 350 pounds.

The Closet

Genuine syphon jet, low tank closet combination, with white enameled iron tank and white seat.

Tank is equipped with compound lever ball cock and adjustable corrugated copper ball float and rubber float flushing valve, operated by china lever in upper corner of tank.

The Syphon Jet Closet Bowl is of the very latest type. Molded in one solid piece from vitreous earthenware, glazed inside and out. The syphonic flushing action with jet spray in bottom of bowl gives a quiet and positive flushing of the bowl.

Seat is built in sections, doweled and glued, of strong, durable construction, covered with genuine white celluloid and fitted with latest type of nickel-plated extension post hinges. Distance from wall to center of outlet in bowl, 13½ inches. Shipping weight, about 140 pounds.

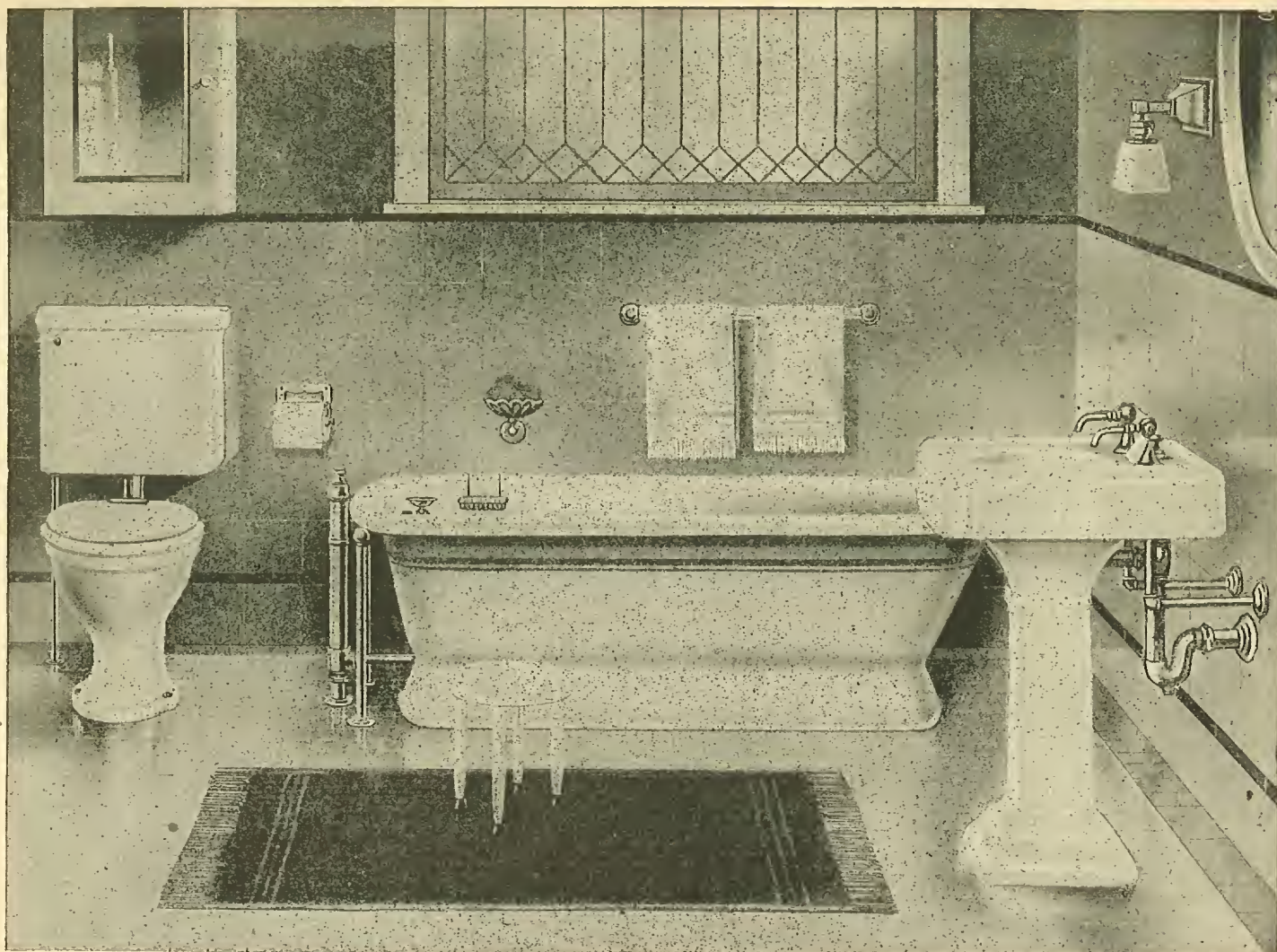
The Lavatory

Very artistically designed, heavily enameled pedestal and bowl. Will not chip. Made of best of gray iron.

Has ideal waste fitting and is capped with white china index. Basin cocks are of latest type, semi-low down, Fuller pattern, nickel plated, with white China handles, indexed hot and cold.

Equipped with supply and waste pipes to wall, with wall flanges and half S trap. All trimmings are of heavy brass construction, heavily nickel plated.

Lavatory is genuine white porcelain enameled over all, from floor up, as shown in illustration. Size of slab, 22 inches by 27 inches. Size of bowl, 12 inches by 15 inches. Shipping weight, about 240 pounds.



\$106.85 Empress Bathroom Outfit \$106.85

Our latest—the result of our study of the plumbing desires of our customers who want the best at a big saving. Every piece made to give the best service possible and yet appeal to the finer sense of beauty. The tub is big, massive, on an attractive, closed base and has the latest improved Roman waste. The pedestal lavatory, enameled from top to bottom, is a masterpiece, and the solid white vitreous china closet tank, with white seat, so smooth and sanitary, cannot be duplicated at our low price. Quiet and positive flushing.

181T6302—Outfit complete, with 5-foot gold striped tub. Ship. wt., about 750 lbs. **\$106.85**

Note.—The price quoted is for lead pipe waste connections; iron pipe supply. If wanted for iron pipe waste, mention this and add \$1.25. Waste connection of bath tub takes 1½-inch pipe; of lavatory, 1¼-inch pipe. Supply pipes to closet and lavatory take ¾-inch pipe; to bath tub, ½-inch pipe.

If 4½-foot tub is wanted, mention this and deduct.. **\$0.25**

If 5½-foot tub is wanted, mention this and add.. **\$ 2.75**

If wanted without ivory white finish and gold stripes on outside of bath tub, mention this and deduct **15.00**

Small accessories not included. See page 51.

The Bath Tub

Tub sets rigidly on closed base. Greatly appreciated by the housewife, as dirt cannot settle under this tub.

Regularly furnished with ivory white enamel finish on outside of entire body of tub, with attractive gold stripe around body.

Latest type Roman Lifting Waste fitting, with china waste index. Heavy brass construction, heavily nickel plated. Tub is fitted with nickel-plated Fuller double bath cock and ½-inch supply pipes to floor as shown.

Width of tub, about 30 inches; depth inside, 17½ inches. Has a 3-inch heavy roll rim around entire tub. Height from floor to top of tub, 23 inches. Ship. wt. of 5 ft. size, about 360 pounds.

The Closet

The most modern type of Syphon Jet Closet; quiet and positive flushing. Low tank pattern.

Ball cock is of compound lever construction, with adjustable corrugated copper ball float, so that just the right amount of water required for flushing the closet can be admitted to tank, tending to cut down water waste.

The closet bowl is of vitreous earthenware, glazed inside and out. Equipped with vitreous china tank and genuine white celluloid covered seat and cover—the last word in cleanliness. Nickel-plated extension post hinges, and rubber buffers under seat.

Tank is connected to bowl by heavily nickel-plated offset flush elbow, with slip joint connections. Nickel-plated supply pipe from tank to floor and floor flange for same. Ship. wt., about 140 pounds.

The Lavatory

Genuine white porcelain enameled from the floor up. Fitted with heavy brass ideal waste, with china waste index. Very gracefully designed.

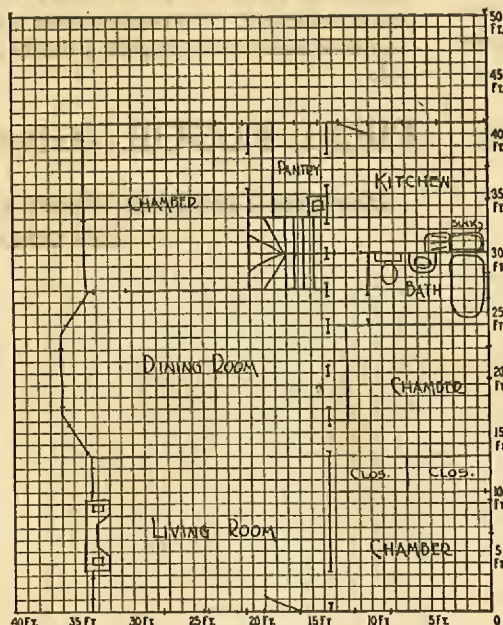
Faucets are of special Fuller pattern, of heavy, brass construction, low set type, with white china handles.

Lavatory is fitted complete with 1¼-inch nickel-plated waste and ¾-inch supply connections to wall. These connections are taken out of back of pedestal, just below slab, and are practically invisible.

Size of slab—Width, 22 inches; length, 27 inches. Size of bowl—Length, 15 inches; width, 12 inches. Shipping weight, about 240 pounds.

Fill Out This Blank Carefully and Send in for Estimate

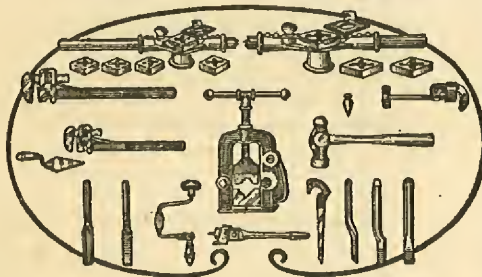
Be sure to give us all the information asked for, so that we can figure correctly. *We can save you money on your Plumbing System. Satisfaction guaranteed.*



Sample Plan Showing First Floor

The above sample plan shows what is needed before our engineer can figure on a system of plumbing that will meet your requirements. Draw up a rough sketch of each of your floors, similar to the above, on the ruled blanks on inside of this sheet.

Allow each space to represent one foot and you will find it an easy matter to lay out a plan of your building. Use inside measurements of room only.



We will Loan You These Plumbers' Tools

Whenever a complete plumbing system of \$75.00 or more is purchased, we will, if requested, lend a complete set of tools for installing, according to our special offer in our Plumbing Catalogue.

Illustration shows outfit for use with Wardway Soil Pipe Cement; we also have an outfit for use with lead for calking joints.

We will add the tools to your order on request when the shipment is made, making a temporary charge for them, as described in our Plumbing Catalogue. When the tools are returned to us, freight paid, we will refund the amount charged.

Is water supply pipe connected to building at present time? _____
If so, indicate where on your sketch.

If not, how far is it to source of water supply, where pipe from house is to be connected? _____

If you receive your water supply from city water works, what is the highest pressure? You can find this out at city water works _____

Give height from ground to roof where soil pipe stack will be located _____

How far is it from your house to sewer or cesspool? _____

Do you want us to include in our estimate, sufficient cast iron soil pipe, with Wardway soil pipe cement and oakum, to make connection between your house and sewer or cesspool, or do you prefer to use tile for this purpose? _____

Do you want waste and supply pipes to wall or to floor? _____
(In old buildings it is easier to run them to floor; in a building being constructed, it is neater to run them to wall)

Do you wish Standard or Extra Heavy soil pipe? _____

Do you want to have both hot and cold water supplied to the different plumbing fixtures? _____

Do you also want rain water connected to some of the fixtures? _____
If so, to which? _____

Is the soil pipe to be concealed in the wall or exposed in the room? _____ (Important)

Will it be necessary to follow city ordinances when installing the plumbing system? _____

NOTE—If necessary to follow city ordinances, get a copy of same from your local authorities, and send it to us with this blank. We will prepare our estimate accordingly.

If You Want Us to Include One of Our Modern Water Supply Systems, Fill Out the Following:

Do you want a hand, wind mill or engine driven outfit? _____

How far is it from ground level to water in well? _____

How far from well or cistern will you want pump to stand? _____

Do you want pneumatic water tank to stand vertically or lie horizontally? _____

How far away from pump will you want the tank? _____

About how many gallons of water do you use per day? _____

Do you want us to arrange a system for both hard and soft water by using two tanks, or one of our Windsor water lifts? _____

Montgomery Ward Co. NEW YORK
Satisfaction Guaranteed or Your Money Back

New York

Chicago

Kansas City

Fort Worth

Portland

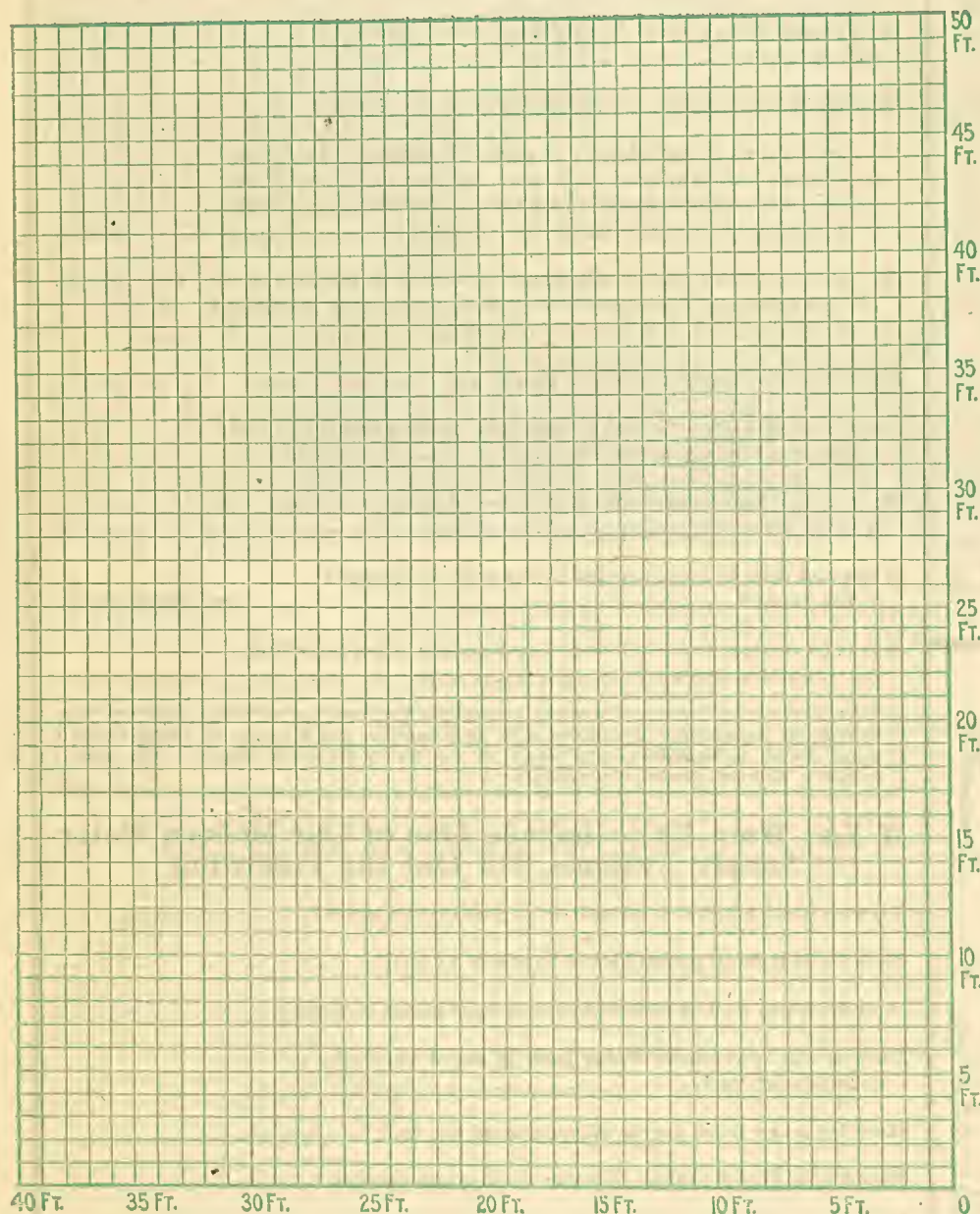
Please Sketch Plan of Each

Draw Full Floor Plans of Each Floor

Give us a full floor plan of each floor so that we can tell relative position of bath room and kitchen, laundry in basement, etc. Then we can determine amount of pipe, etc., required. Indicate on basement plan by a line or an arrow, in which direction the sewer or cess pool lies; also location of source of water supply; so that we can tell about where pipes will have to enter and leave building.

BASEMENT—Give Height _____ **Ft.** _____ **In.**

Mark on This Plan Where Basement Fixtures Are to be Located

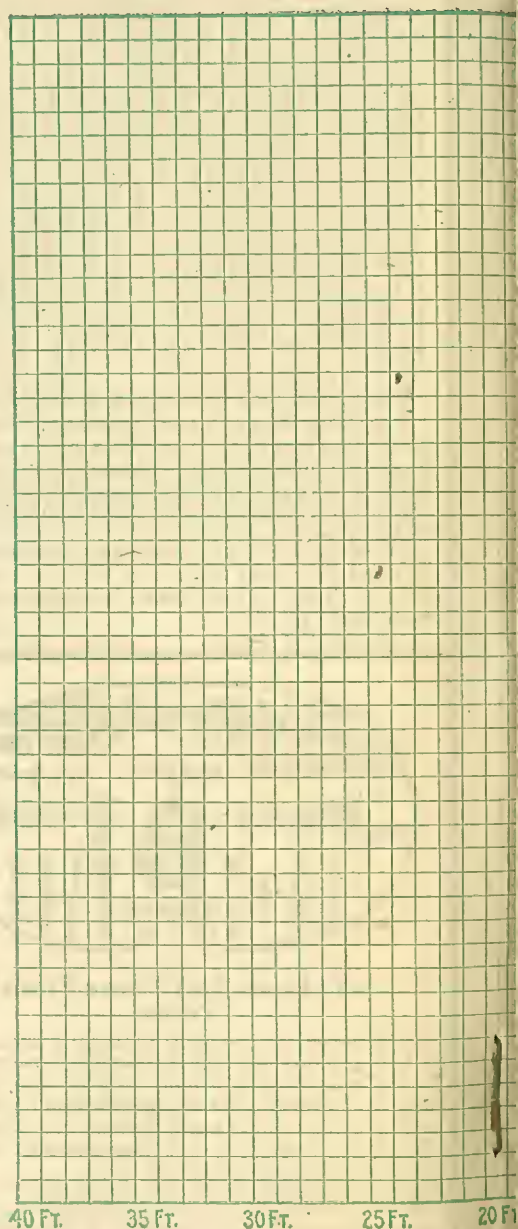


Show Location of

After you have drawn an outline of each floor, different rooms, etc., mark carefully in the bath room. In kitchen show where the kitchen range will be, range boiler, etc. In basement show laundry tub location. We can then make an intelligent estimate of the amount of pipe required for the job.

FIRST FLOOR—Give Height _____ **Ft.** _____ **In.**

Mark on This Plan Where First Floor Fixtures Are to be Located
(See Other Side for Instructions)



Every Plumbing System We Sell is Backed by

City Ordinances

When designing your system we do not take into consideration any special city ordinances unless the restrictions in your locality are such that plumbing ordinances must be followed. If this be the case, get a copy of same from your local authorities, and send to us with this blank so we can plan accordingly.

Montgomery Ward
Satisfaction Guaranteed or Your Money Back

NEW YORK

CHICAGO

KANSAS

ch Floor in Squares Below

of Each Fixture

oor showing dividing partition between the dif-
a room just where each fixture will be located.
ill stand, where you wish kitchen sink placed,
tubs, pneumatic water supply system, etc. We
amount of pipe and fittings required for your

Regarding Location of Fixtures

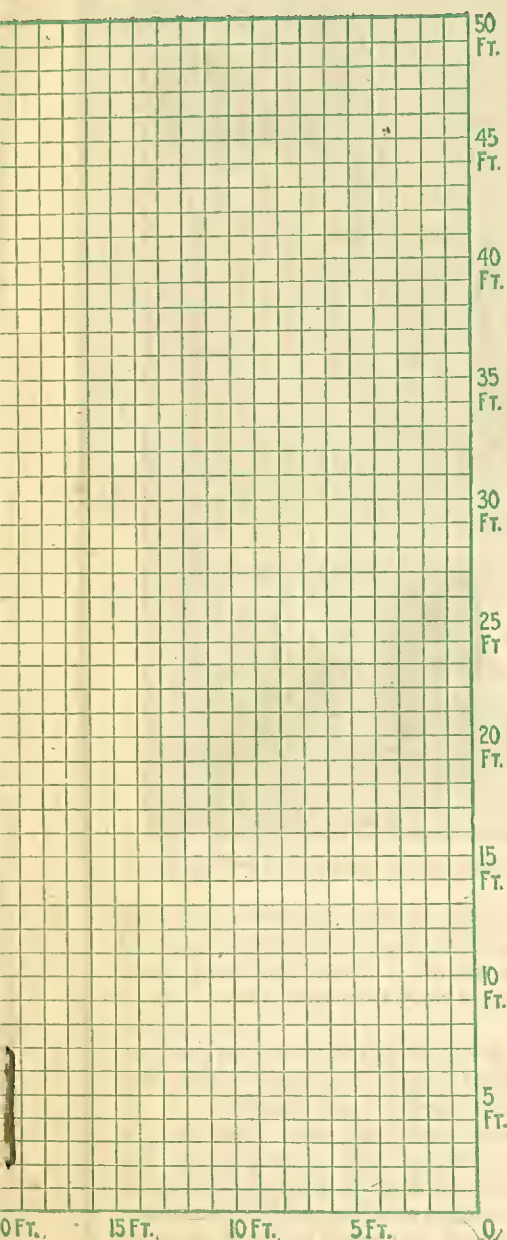
When arranging or locating the different fixtures, remember that the soil pipe stack should
be located directly behind closet outfit to get best results. Try to place sink on first floor,
and laundry tubs in basement, as closely in line with the bath room on second floor as possible.
This will cut down amount of pipe required, and reduce the cost. If in doubt, mark where
you prefer them. If requested, our engineers will be glad to offer suggestions.

Height _____ Ft. _____ In.

SECOND FLOOR—Give Height _____ Ft. _____ In.

Floor Fixtures Are to be Located
(for Sample Plan)

Mark on This Plan Where Second Floor Fixtures Are to be Located



Our Strong Guarantee of Absolute Satisfaction

NEW YORK

S CITY

FORT WORTH

PORTLAND

Plans and Instructions Free

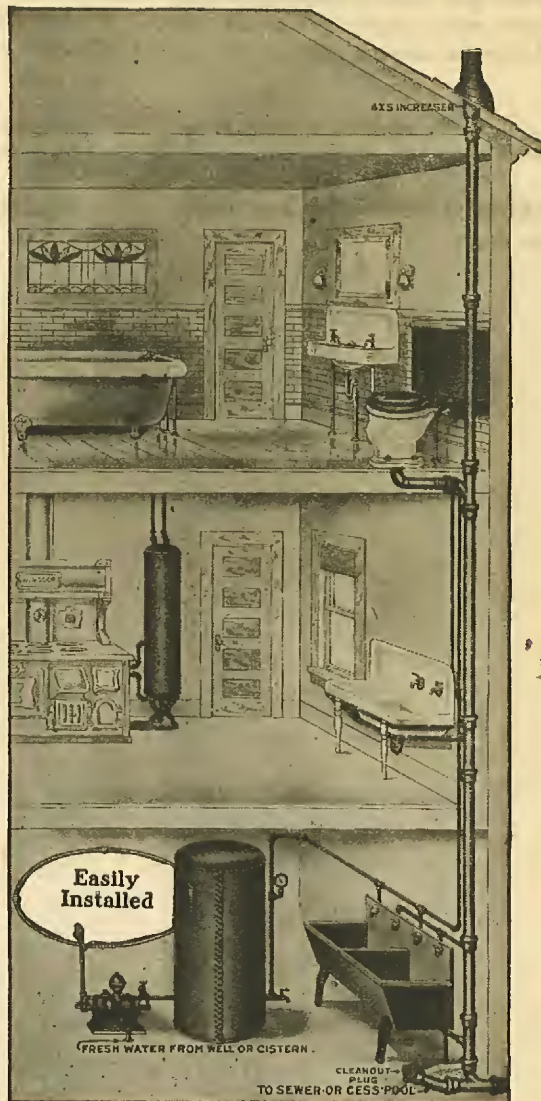
Our engineering department furnishes with each complete plumbing system a set
of detailed plans and instructions—easy to follow. These clearly illustrate and
describe the installation of the outfit, making it a simple matter for any ordinary
man to put in a first class job of plumbing.

We Will Give You a Complete Estimate Free of Charge

Fill in the blank spaces with the information desired. It will place you under no obligation whatever. We make no charge for estimates on Plumbing Systems.

Date	
191	
Name	
Post Office	
R. F. D. No.	State
P. O. Box No.	Street and No.
Shipping Point	County

ARTICLE	ARTICLE No.	SIZE	PRICE
Bath Room Outfit			
Bath Room Accessories			
Kitchen Sink			
Range Boiler			
Gas, Gasoline or Kerosene Water Heater			
Laundry Tubs			
Mop Sink			
Water Supply System			
Plumbing Tools			



The Average Installation in a Country or Suburban Home

The above illustration suggests the best way to place the various fixtures so that they may be installed with the least labor and expense, as only one soil pipe stack is needed.

If this style of arrangement can be carried out in your home we recommend that you make your sketch accordingly.

If, however, the bathroom will be on an opposite side of the house from the kitchen, it may be best to provide two separate soil pipe stacks. We will plan everything for you; all you need to do is give us all the information called for on this blank.

Montgomery Ward Co. NEW YORK
Satisfaction Guaranteed or Your Money Back

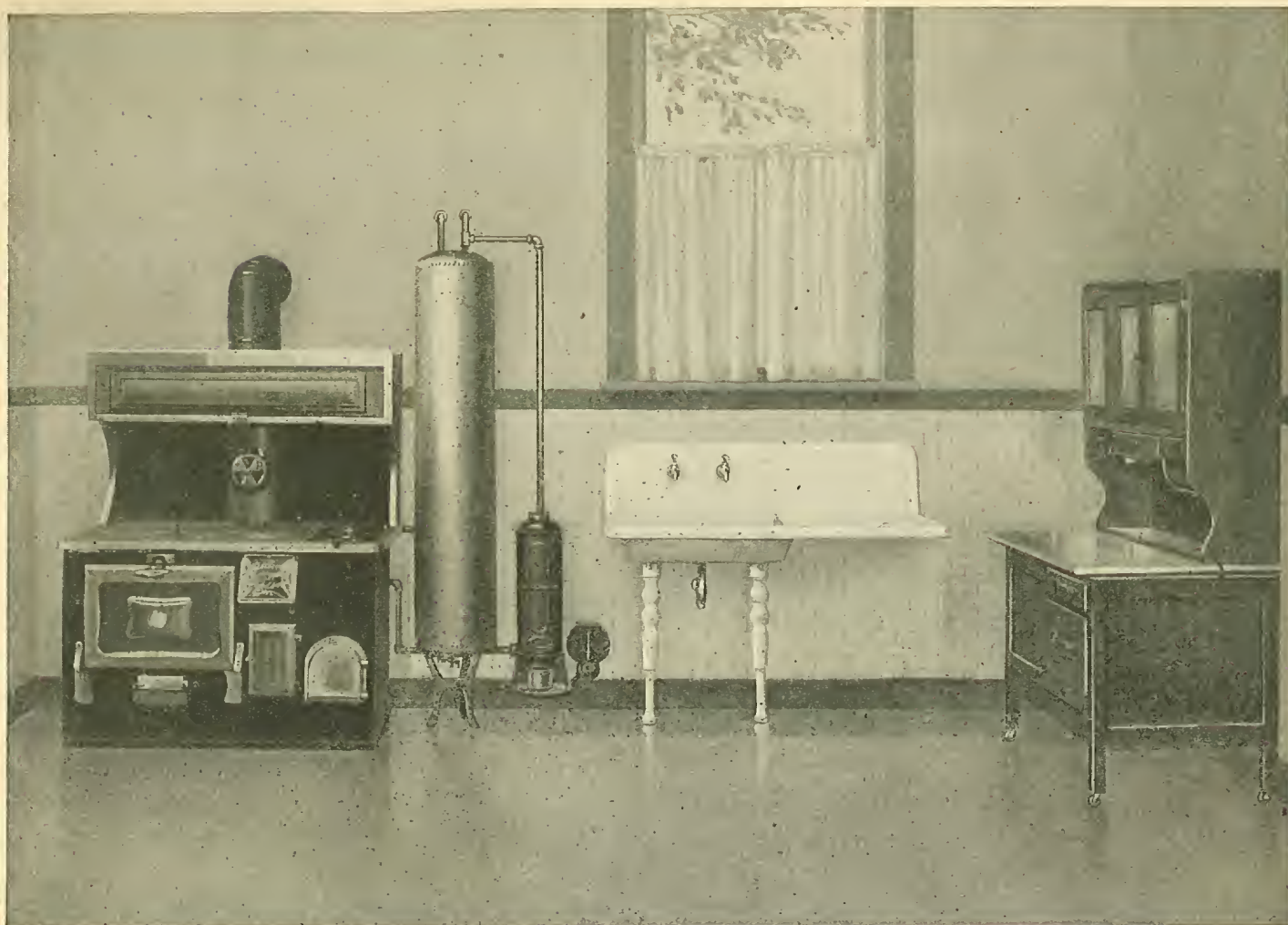
New York

Chicago

Kansas City

Fort Worth

Portland



\$104.50 Franklin Kitchen Outfit \$66.50

Outfit Complete as Shown

181T6623—Complete as shown—Sink, Range Boiler, Kerosene Heater, Kitchen Range and Kitchen Cabinet. Makes an ideal kitchen, so arranged as to save you time and footsteps and yet make your kitchen most attractive. This outfit does not include iron pipe and fittings. Write for complete estimate. Shipping weight, 975 pounds. Price,..... **\$104.50**

Plumbing Fixtures Only

181T6625—Consists only of plumbing articles—Kitchen Sink, Range Boiler and Kerosene Heater. Our estimators will gladly give you estimate for special kitchen outfit complete, including the necessary iron pipe and fittings. Shipping weight, 375 pounds.

Price, **\$66.50**

Kitchen Sink White porcelain enameled. Large roll rim. One-piece, with right hand drain board. An elegant sink of beautiful design and appearance. Length, over all, 52 inches. Width, 20 inches. Length of drain board, 24 inches. Height of back, 12 inches. Everything complete, including faucets, trap, trap coupling, ornamental legs, sink strainer and concealed cast iron wall hangers for sink.

Kerosene Heater Burns either kerosene or alcohol as fuel. Safe and compact. Easy to attach to range boiler. Tests show one gallon of kerosene lasts for 12 hours of continuous burning. Copper water coils heat water in range boiler very quickly. Has cast-iron casing of neat design.

Range Boiler Standard, 30-gal-
lon type, galvanized. Tested to 200 pounds pressure. Maximum working pressure, 85 pounds. Stores the water as heated by kerosene heater or water-front in stove. Heated water goes through top of range boiler and circulates through pipes. Stand and couplings are included.

Kitchen Range Our Kitchen Windsor. Complete with high closet also water front to heat water in range boiler when you are baking or cooking. Size of cooking top, 44x30 inches. Width of oven, 18 inches; depth, 21 inches; height, 13 inches. Nickel-plated doors and trimmings. One of our most serviceable stoves.

Kitchen Cabinet Has large elevated flour bin with art glass door. Made of genuine oak in rich golden oak finish. Easy-sliding drawers. Good casters. A very attractive kitchen cabinet. Upper swinging doors have art glass. Ample room for placing dishes, pans, flour, bread, etc.



\$133.50

Princess Kitchen Outfit

\$64.50

Outfit Complete as Shown

181T6627—Complete as shown—Sink, Range Boiler, Gas Heater, Kitchen Range and Kitchen Cabinet. Notice how inviting this kitchen looks. This outfit consists of articles of strong wearing qualities and yet of neat design. Iron pipe and fittings not included. Write for complete estimate. Shipping weight, 990 pounds. Price.....**\$133.50**

Kitchen Sink Massive design, with attractive deep rim. Porcelain enameled. Drain board and sink all one solid piece. Smooth, easy to clean and no cracks to catch grease and dirt. A very serviceable sink, and one that is always the pride of the owner. Length, over all, 52 inches. Width, 20 inches. Complete with faucets, trap, trap coupling, ornamental legs, sink strainer and concealed wall brackets.

Kitchen Stove Our Mayflower Windsor. Complete with high closet and water front. Attractively finished. Has heat indicator for oven. Size of cooking top, 43x27½ inches. Width of oven, 20 inches depth, 20 inches; height, 11¾ inches. It bakes perfectly and uses a very small amount of fuel.

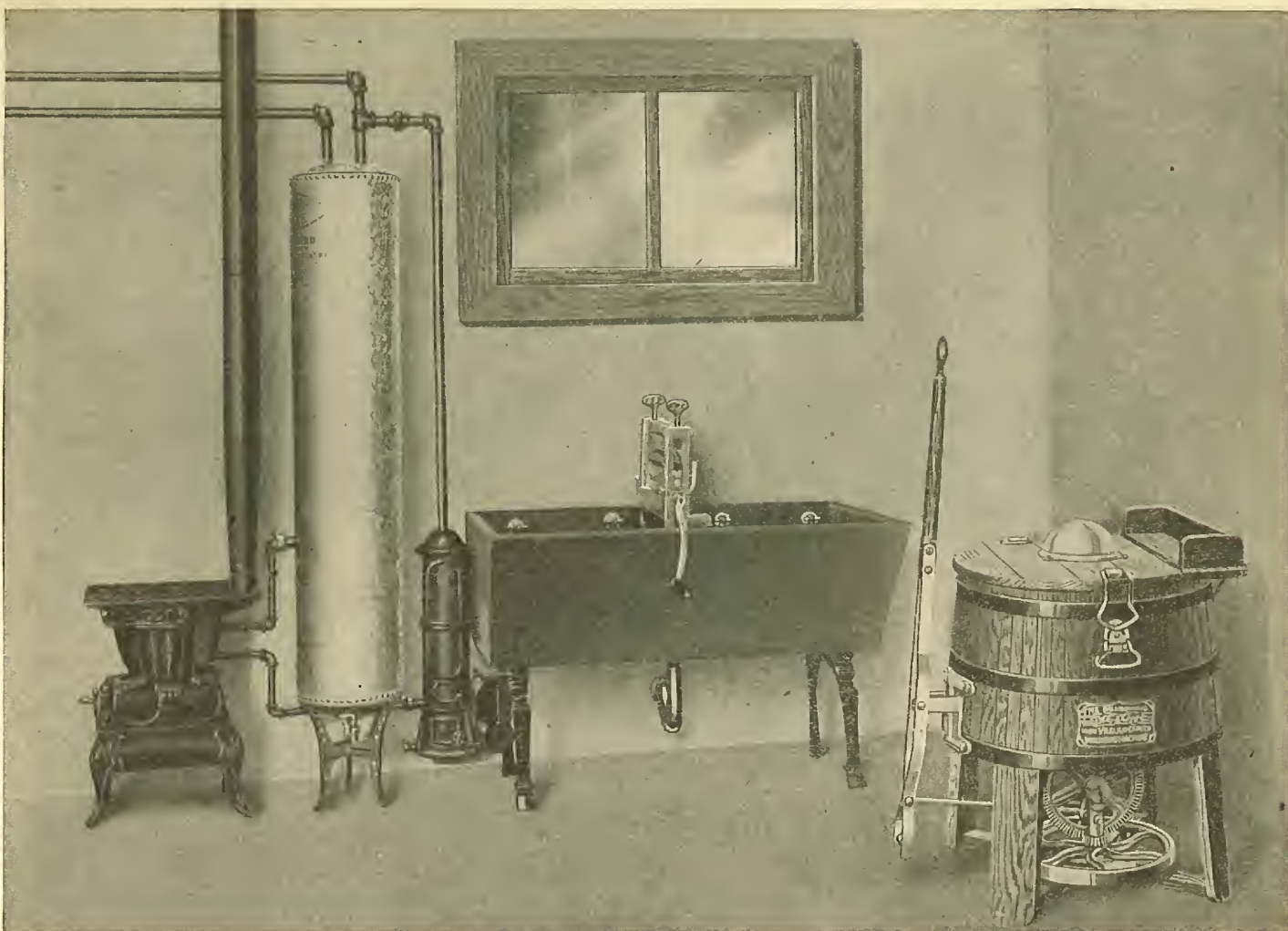
Gas Heater Has double copper coil of ¾-inch seamless tubing. Heavy cast iron burner in bottom. Fitted for ¾-inch water pipe connection. Gas valve tapped for ½-inch pipe. Front half of heavy cast iron jacket is hinged for cleaning heater. Heats water very quickly.

Range Boiler Standard, 30-gallon type, galvanized. Tested to 200 pounds pressure. Working pressure, 85 pounds. Stores the water as heated by gas heater or water front in stove. When heated, water goes through top of range boiler and circulates through pipes. Stand and couplings are included.

Kitchen Cabinet Solid oak in neat golden oak finish. Shelf doors and elevated flour bin window have art glass. Easy sliding drawers. Good casters. Takes up little space and has plenty of room for pans, dishes, etc. Easy to keep clean. A serviceable cabinet that will pay for itself many times in wear and convenience.

Plumbing Fixtures Only

181T6629—Consists only of plumbing articles—Sink, Range Boiler and Gas Heater. Our estimators will gladly furnish you with complete estimate, including iron pipe and fittings for special outfit. Shipping weight, 410 pounds. Price.....**\$64.50**



\$62.50 Watertown Home Laundry Outfit \$40.65

Outfit Complete as Shown

181T6631—Complete as shown—Laundry Tub, Range Boiler, Kerosene Heater, Laundry Stove, Wringer and Wash Machine. Handy, in a corner in the basement where you can easily wash your clothes with speed and satisfaction. This price does not include iron pipe and fittings. Write for complete estimate. Ship. wt., 780 lbs. Price,\$62.50

Plumbing-Fixtures Only

181T6633—Consists only of Laundry Tub, Range Boiler and Kerosene Heater. The price below does not include any pipe. Our estimators will gladly give you estimate for special complete outfit, including such iron pipe and fittings as you may require. Shipping weight, 550 pounds. Price,\$40.65

Laundry Tub Double part tub. Moulded in one solid piece of special granite composition. Top edges protected with patent metallic rim. No seams to leak. Each compartment has a separate waste and supply, and can be filled or emptied independently. Length, 48 inches. Width, 24 inches. Depth, 16 inches. Trap, faucets, faucet couplings, waste plugs and legs are included.

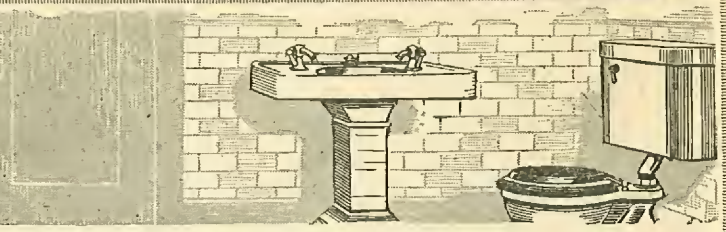
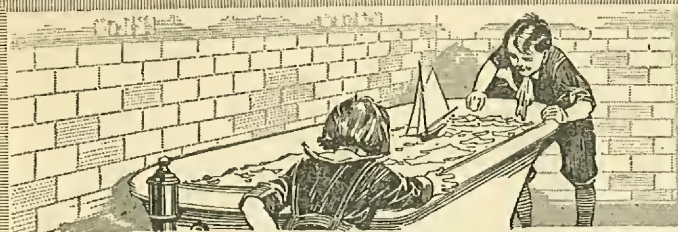
Laundry Stove Heats about thirty gallons of water per hour. Water front in back of fire pot. Use the top for washing, ironing or cooking. Size of top, 21x22 inches. Height, 23 inches. A very handy stove, requiring little fuel.

Kerosene Heater Burns either kerosene or alcohol as fuel. Safe and compact. Easy to attach to range boiler. Tests show one gallon of kerosene lasts for 12 hours of continuous burning. Copper water coil heats water in range boiler very quickly. Has cast iron casing of neat design.

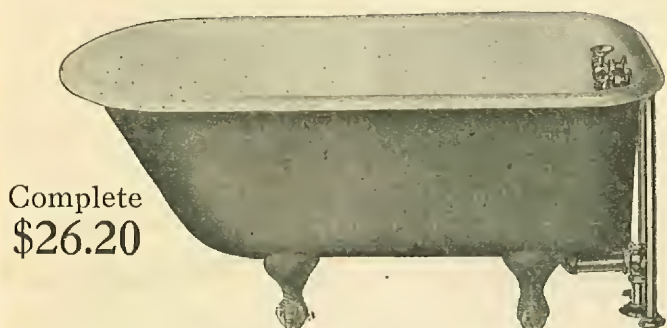
Washing Machine Our Cyclone Vacuum Washer—no hard rubbing—no tearing of clothes and breaking of buttons. Powerful, yet easy running. Vacuum cups suck dirt out of the finest linens as well as heavy blankets. Round tub is of water-resisting Southern Cypress. Diameter of tub inside, 21 inches. Height to lid, 29 inches. It is guaranteed to satisfy.

Range Boiler Standard, thirty-gallon type, galvanized. Tested to 200 pounds pressure. Working pressure, 85 pounds. Stores the water as heated by kerosene heater, laundry stove, furnace coil or water front in stove. Heated water goes through top of range boiler and circulates through pipes. Stand and couplings are included. Height of boiler, 60 inches. This is the size that is commonly used.

Wringer Frame made of selected maple. Fitted with steel ball bearings. Holdfast clamps hold wringer secure to tub. Fitted with old-fashioned elastic rubber rolls, 10x1¼ inches. Guaranteed for 5 years.



Bathtubs Like These Often Sell at Double Our Prices



Complete
\$26.20

Walton Porcelain Enameled Bath Tub

181T6437—Tub is cast from the best grade of gray iron. Each tub is absolutely sound and perfect, and free from any defects. Genuine white porcelain enamel is applied inside the tub and over the roll rim by a special process insuring hard and fast contact between the iron and the porcelain enamel. Will not crack or peel.

The outside of the tub is painted one coat of iron filler paint. We can, however, furnish tub with ivory white finish, trimmed with gold bands, at extra cost, as noted below. Tub is fitted complete with nickel-plated connected waste and overflow, chain and stopper and nickel-plated supply pipes to floor, all brass, with slip joint coupling connections.

Has an improved nickel-plated brass Fuller double-bathcock. Width of tub over rim, 30 inches. Depth inside, 17 1/2 inches. Height from floor to top edge of rim, 23 inches. Fitted for lead pipe connection. If 1 1/2-inch slip joint iron pipe connection is wanted, specify this and add 50c.

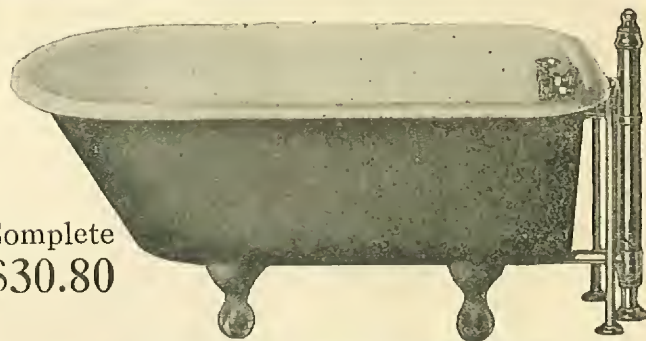
181T6437—Bath tub complete with nickel-plated trimmings as described. Mention size wanted.

Size of tub, feet.....	4 1/2	5	5 1/2
Shipping weight, pounds.....	315	350	365
Price, complete.....	\$26.20	\$26.45	\$29.25

181T6434—Bath tubs only, with legs. No other trimmings.

Size tub, feet.....	4 1/2	5	5 1/2
Each.....	\$18.65	\$18.85	\$21.70

181T6429—Fine ivory white finish with gold bands applied on outside of any above tubs. Extra charge.....\$15.00



Complete
\$30.80

Rutland Porcelain Enameled Bath Tub

181T6438—Tub is cast from the best grade of gray iron. Heavily coated with genuine white porcelain enamel on the inside and over the roll rim. Enamel is applied by a special process, insuring hard and fast contact between the enamel and the iron, and preventing it from cracking.

Tub is mounted on gracefully designed, ornamental iron legs as shown. A special feature of this tub is the Ideal waste and overflow fitting. It is of heavy brass construction, finely nickel-plated, with China waste-index. This fitting does away entirely with the necessity of any rubber stopper in the tub.

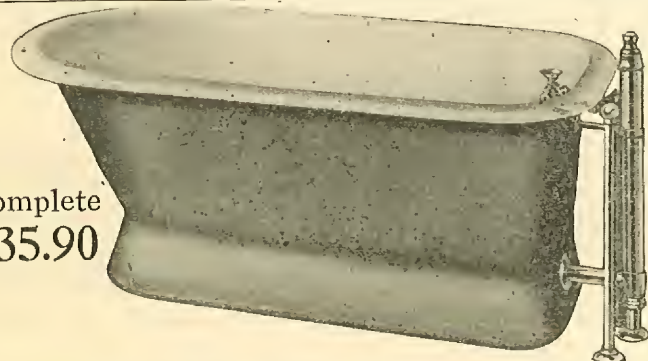
Tub is fitted with nickel-plated brass supply pipes to floor, with floor flanges, and nickel-plated Fuller double-bathcock. Width of tub over rim, 30 inches. Depth inside, 17 1/2 inches. Height, from floor to top of rim, 23 inches. Fitted for lead pipe connection. If 1 1/2-inch slip joint iron pipe connection is wanted, specify this and add 50c.

NOTE—Prices given below are for tub complete with nickel-plated trimmings. Tubs are regularly painted one coat of red iron filler paint on outside, but can be furnished with ivory white finish on outside, at extra charge, as noted below. Be sure to state size wanted.

Article Number 181T6438

Size tub, feet.....	4 1/2	5	5 1/2
Shipping weight, pounds.....	325	360	375
Price, complete.....	\$30.80	\$31.00	\$33.85

181T6439—Fine ivory white finish with gold bands applied on outside of any above tubs. Extra charge.....\$15.00



Complete
\$35.90

Bradford Enameled Pedestal Tub

181T6444—Attractively formed of cast iron with genuine white porcelain enamel finish inside and over the roll rim. The closet pedestal base gives the tub a solid, massive appearance and prevents the accumulation of dirt.

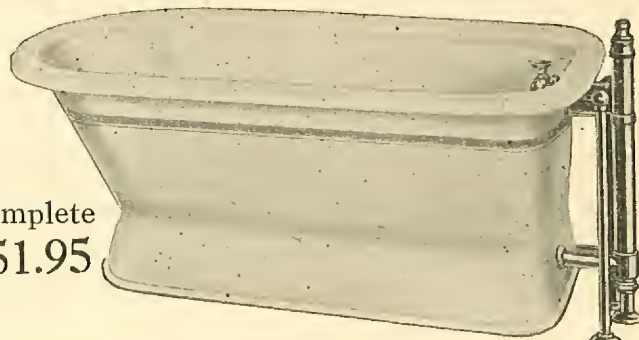
Tub is fitted with the very latest type of Ideal lifting waste, and overflow fitting, with china waste-index. Nickel-plated brass. This fitting does away entirely with the necessity of a rubber plug or stopper in the bottom of the bath tub, which is often so troublesome and hard to keep in place. Nickel-plated supply pipes to floor, and nickel-plated Fuller double-bathcock.

Tub is of the highest grade, and the enamel will not chip, peel or crack. Width, 30 inches, with 3-inch heavy roll rim around entire tub. Depth inside, 17 1/2 inches. Height from floor to top of rim, 23 inches. Outside of tub is painted with one coat of iron filler paint. Fitted for lead pipe connection. If 1 1/2-inch slip joint iron pipe connection is wanted, specify this and add 50c.

NOTE—Prices given below are for tub complete with nickel-plated trimmings. Mention size wanted.

Article Number 181T6444

Size tub, feet.....	4 1/2	5	5 1/2
Shipping weight, pounds.....	325	360	415
Price, complete.....	\$35.90	\$36.45	\$39.15



Complete
\$51.95

Maldere Ivory Finished Pedestal Tub

Stately and graceful with ivory white finish on outside, ornamented with rich gold stripes. White porcelain enameled inside and over roll rim. A massive looking bathtub of heavy cast iron.

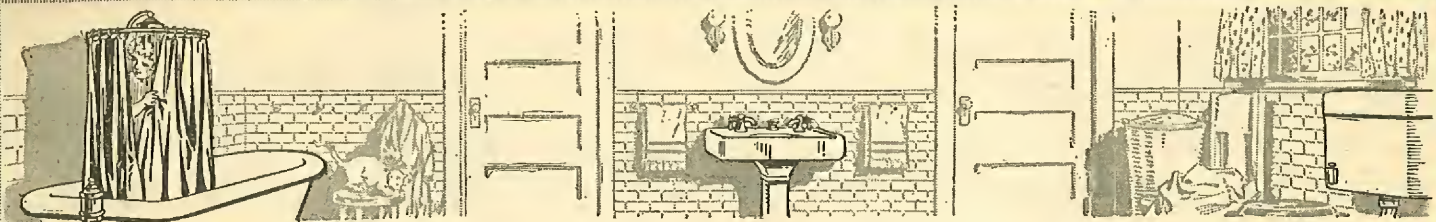
The closed pedestal base greatly enhances the appearance of tub and prevents any dirt from gathering below it. China-indexed Ideal lifting waste fitting. Of brass construction, finely nickel-plated, and does away with the rubber stopper and chain, often so troublesome to keep in place.

Tub is fitted with nickel-plated supply pipes to floor and nickel-plated Fuller double-bathcock. The tub is enameled by a special process which insures against any possibility of its cracking or peeling. Width, 30 inches, with 3-inch heavy roll rim around entire tub. Depth inside, 17 1/2 inches. Height from floor to top of rim, 23 inches. Fitted for lead pipe connection. If 1 1/2-inch slip joint iron pipe connection is wanted, specify this and add 50c.

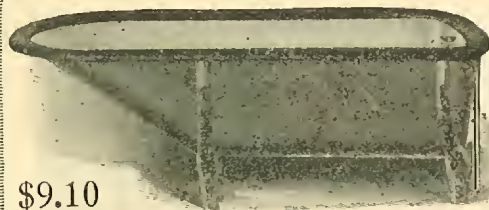
NOTE—Prices given below are for tub complete with nickel-plated trimmings. Mention size wanted.

Article Number 181T6445

Size tub, feet.....	4 1/2	5	5 1/2
Shipping weight, pounds.....	325	360	415
Price, complete.....	\$51.95	\$51.45	\$54.20



Moderately Priced Accessories and Outfits for the Bath



\$9.10

Middleton Light Bath Tub

If you wish to go to very little expense in fitting up your bathroom, our enameled steel bathtub will entirely fill your needs. Often used for summer cottages. Built of heavy galvanized sheet steel, white enameled inside and painted blue outside. Gift trim. Top of tub is capped with 3-inch solid oak rim, nicely varnished and finished.

Tub is fitted with nickel-plated waste and overflow pipes, chain and rubber stopper. Faucets and supply pipes are extra. Has 1 1/4-inch iron pipe thread on outlet for connection to either lead or iron pipe.

181T6420—Length, 4 1/2 feet. Shipping weight, 75 pounds. Each.....\$9.10
181T6421—Length, 5 feet. Shipping weight, 80 pounds. Each.....\$9.50
181T6422—Length, 5 1/2 feet. Shipping weight, 90 pounds. Each.....\$9.85

Extras

81T6525—Nickel-plated Fuller double bathcock with nickel-plated water supply pipes. For 1/2-inch iron pipe connection. Shipping weight, per pair, 5 pounds. Per set.....\$5.70



\$1.90

Rubber Faced Spray Brush

81T6507—Shower head has rubber brush face, with perforations through which water flows. The brush is soft and pliable and pleasantly cleansing. One of the best ideas in bath brushes ever placed on the market. Has 5 feet best quality reinforced tubing, with rubber attachment bulb and nickel-plated chain, for securely attaching to bath cock. Shipping weight, 1 1/2 pounds. Each.....\$1.90

Nickel-plated Shower Bath Yoke

81T6502—Nickel-plated brass, with flexible rubber tubing attachment. Length, 5 feet. Has enlarged end for attaching to any bath faucet. Temperature of water easily regulated by adjusting faucet handles on bathcock to which tube is attached. Enables you to take a shower without wetting the hair. Just the thing for a cool, refreshing shower before leaving the bath. Shipping weight, 1 1/2 pounds. Each.....\$1.50

Bleached Bath Sponges



High-Grade Sponges

53T4772—Full sized bath sponge. Each.....55c
53T4773—Medium sized. Each.....27c
53T4774—Size, about 4 inches. Each.....15c
53T4775—Small size. Each.....10c

Extra Fine Soft Sponges

Commonly known as silk sponges owing to their very fine texture.

53T4778—Large size, 4 inches. Each.....45c
53T4779—Medium, about 3 inches. Each.....25c
53T4780—Small, about 1 1/2 inches. Each.....15c

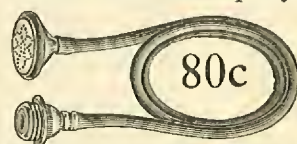


Sheldon Tub Shower

81T6508—Here is a complete shower bath combination of attractive appearance at a price within reach of all, because no expensive plumbing is required to attach it. It comes complete with nickel-plated screws for fastening to wall at desired height, and can be set up in a few minutes.

The entire frame and all metal parts are made of finely nickel-plated brass. Height over all, about 7 feet. Temperature of water easily regulated at bathcock. Complete with soft white duck curtain, curtain rings, rubber cap, and 4-foot rubber tube, for connecting to faucet. Shipping weight, 8 pounds. Each.....\$9.25

Shower Bath Spray



80c

81T6505—First quality spray, for shampoo or bath. Length, 5 feet. Has nickel-plated brass shower head perforated, with heavy rubber tubing and bulb end for connection to bath faucet.

The shower head is fitted with a rubber guard to prevent injury to tub or basin. Shipping weight, 1 pound. Each.....80c

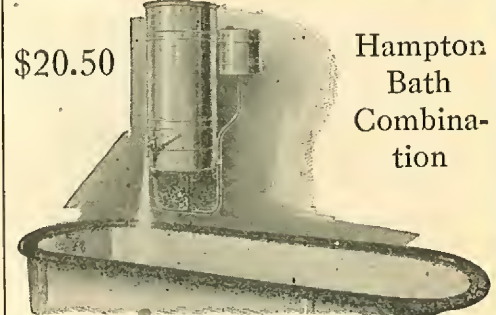
Portable Shower Bath

\$4.30



181T6506—Consists of a galvanized iron tank of 5 gallon capacity for attaching to wall, and to which is attached a rubber shower hose with adjustable perforated loop. Length, 30 inches. In this way a complete bath can be taken without the necessity of any plumbing installation whatever.

Can be used in any building anywhere, regardless of whether plumbing is installed or not. Simply fill the tank with water at proper temperature, and it is ready for service. Flow of water is regulated by valve beneath tank, to which rubber tube is connected. Shipping weight, about 6 1/2 pounds. Each.....\$4.30



\$20.50

Hampton Bath Combination

Consists of our Mohawk nickel-plated water-heater, and our Middleton bath tub described at left. The heater is one of the finest of the portable type. Tank is made of sheet steel, nickel-plated. Has a metal coil in the bottom. Burns city gas or gasoline and heats in about thirty minutes.

The tub is light and easily handled and for temporary use, can be fitted with rubber hose to discharge waste water into sewer or cesspool. An ideal outfit for summer cottages, etc. If permanent installation is desired, it is only necessary to make the cold and waste water connection.

Size of heater tank, height 26 inches; diameter, 12 inches. Capacity, 10 gallons. Mention whether for gas or gasoline.

181T6435—Combination with 4 1/2-foot tub. Shipping weight, 130 pounds. Each.....\$20.50
181T6436—Combination with 5-foot tub. Shipping weight, 135 pounds. Each.....\$20.75
181T6525—Fuller bathcock and supply pipes for above tub. Shipping weight, 5 pounds. Price.....\$4.98



\$1.90

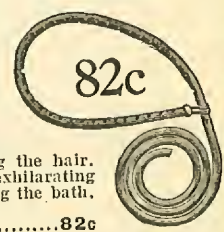
Bath Spray Brush

81T6509—A very practical and sanitary bath brush. The brush part measures 9x3 inches and is made of the fine white horsehair bristles which have a soft velvety touch that does not irritate the skin. Rubber tubing is of best quality, 5 feet long. Water is discharged throughout entire length of brush. No bathroom should be without it. Has bulb for attaching to bathcock. Shipping weight, 1 1/2 pounds. Each.....\$1.90

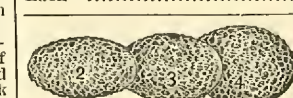
Rubber Shower Bath Hose

81T6500—Made of the 3/4-inch corrugated rubber tubing with inserted eyelets. Length, 7 feet. Adjustable loop. This spray is easily attached to any faucet not over 1/2 inch outside diameter.

A refreshing shower bath can be taken without wetting the hair. Just the thing for a cool, exhilarating rinsing shower before finishing the bath. Shipping weight, 18 ounces. Each.....82c



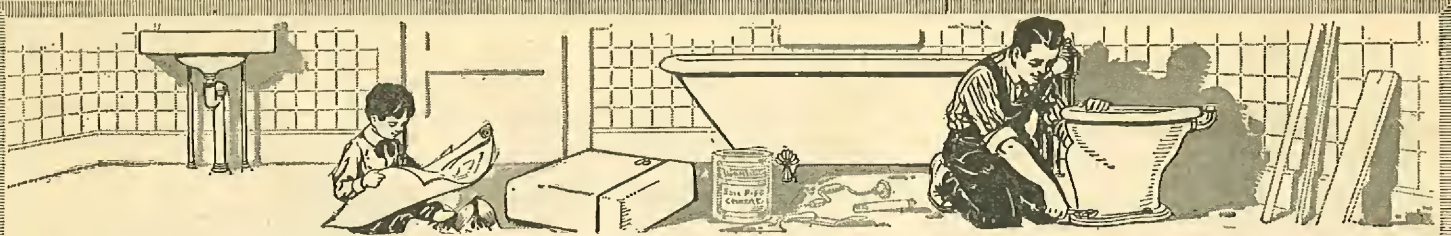
82c



Rubber Bath Sponges

Sanitary and antiseptic. They lather freely, and impart a mild friction. Very pleasing and pleasant to the skin. Shipping weight, 2 ounces.

53T5162—Small size.....37c
53T5164—Medium size.....49c
53T5166—Large size.....77c



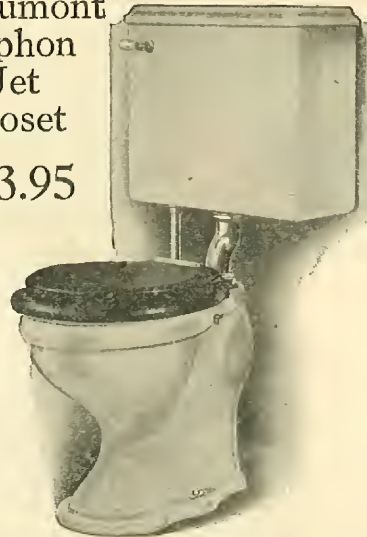
Attractively Designed Closets Approved Everywhere

**Altona
Syphon
Washdown
Closet**
\$18.10



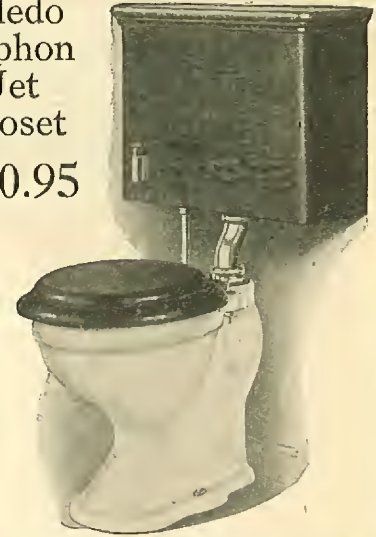
181T6450—Tank is of highly finished golden oak with copper lining. Flushing device is latest rubber ball float type with adjustable copper ball float. Push button action. Seat is strongly made of golden oak with nickel-plated extension post hinges. Bowl is moulded from best quality vitreous earthenware, and is of the latest syphon washdown type. With floor bolts and washers. Nickel-plated 2-inch flush elbow for connecting tank and bowl with slip joint couplings. Nickel-plated supply pipes and floor flange, fitted for iron or lead pipe connection. Shipping weight, 100 pounds. Price, complete.....\$18.10

**Beaumont
Syphon
Jet
Closet**
\$23.95



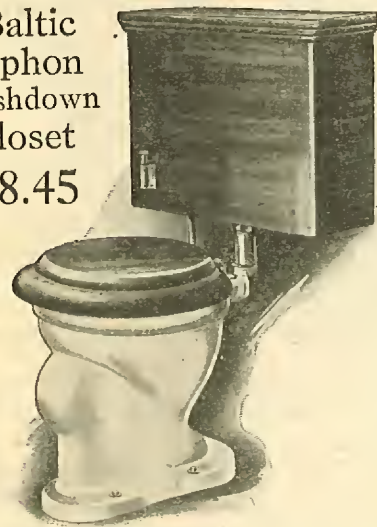
181T6463—Has genuine white porcelain-enamelled tank of strong cast iron. Flushing device is of latest type with compound lever ball cock, copper ball float and rubber float flushing valve. White China lever. Alkaline or mineral properties in water will not harm tank. Bowl is of best quality white vitreous earthenware, latest and best syphon, jet pattern—practically noiseless. Strongly made, mahogany finished seat. Nickel-plated offset connection from tank to bowl, with slip joint coupling. Nickel-plated supply and floor flange for iron or lead pipe connection. Floor screws and washers to fasten bowl to floor. Shipping weight, 140 pounds. Price, complete.....\$23.95

**Aledo
Syphon
Jet
Closet**
\$20.95



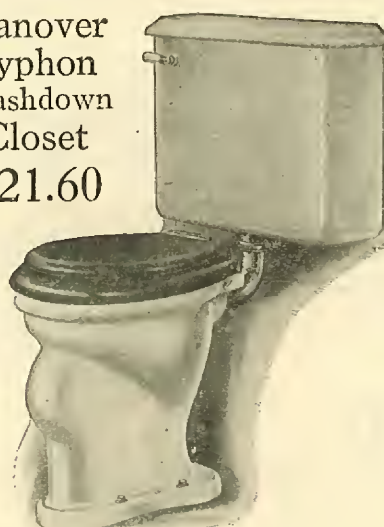
181T6455—Has copper lined tank of highly finished golden oak. Has compound lever ball cock, copper ball float, and rubber float flush valve. Push button action. Seat is of golden oak with heavily nickeled extension post hinges, rubber washers, etc. Latest type syphon jet pattern bowl, molded in one piece from best quality white vitreous earthenware, with floor bolts and washers. Efficient and practically noiseless. Nickel-plated offset elbow and slip joint couplings connects tank and bowl. Nickel-plated supply pipe and floor flange; fitted for iron or lead pipe connection. Shipping weight, 120 pounds. Price, complete.....\$20.95

**Baltic
Syphon
Washdown
Closet**
\$18.45



181T6451—Tank is mahogany finished and is lined with copper. Latest flushing device, with compound lever ball cock, copper ball float, and rubber float flushing valve, operated by China Lever. Tank not affected by alkaline water. Bowl is of strong white vitreous earthenware, syphon washdown pattern, glazed inside and out. Quiet, positive flushing. Seat is made of hard wood, mahogany finished. With nickel-plated hinges. Nickel-plated slip-joint elbow flush-connection from tank to bowl. Nickel-plated supply pipe with floor flange for lead or iron pipe connection. Nickel-plated screws and washers to fasten bowl to floor. Shipping weight, 100 pounds. Price, complete.....\$18.45

**Hanover
Syphon
Washdown
Closet**
\$21.60

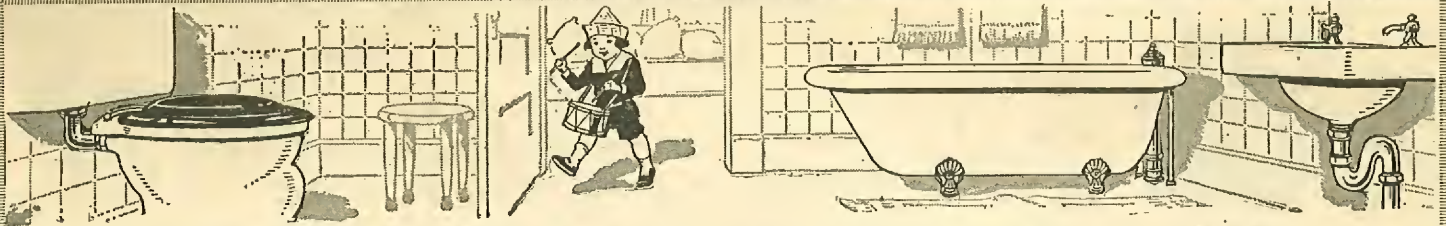


181T6462—Has attractive white porcelain-enamelled cast iron tank. Latest type flushing mechanism with compound lever ball cock, copper ball float and rubber float flushing valve operated by China lever. Few working parts. Tank not affected by alkaline water. Syphon-washdown bowl is of strong vitreous earthenware, white glazed inside and out. Mahogany finished seat with nickel-plated extension posts, rubber washers, etc. Nickel-plated slip-joint elbow flush-connection from tank to bowl. Nickel-plated supply pipe with floor flange for lead or iron pipe connection. Nickel-plated screws and washers for fastening bowl to floor. Shipping weight, 135 pounds. Price, complete.....\$21.60

**Ipswich
Syphon
Jet
Closet**
\$21.35



181T6456—Mahogany finished tank lined with copper. Has latest type rubber ball flushing valve with nickel-plated push button action, and compound lever ball cock with copper ball float. Seat is mahogany finished, reinforced, and fitted with nickel-plated extension post hinges. Bowl is of the latest syphon-jet type, very efficient and noiseless. Molded in one piece from best quality vitreous white earthenware. Nickel-plated offset flush-elbow with slip-joint connection from tank to bowl. Nickel-plated supply pipes and flange to floor. Fitted for lead or iron pipe connections. Shipping weight, 120 pounds. Price, complete.....\$21.35



Noiseless Closets Built to Combine Sanitation and Beauty

Madison Syphon Jet Closet

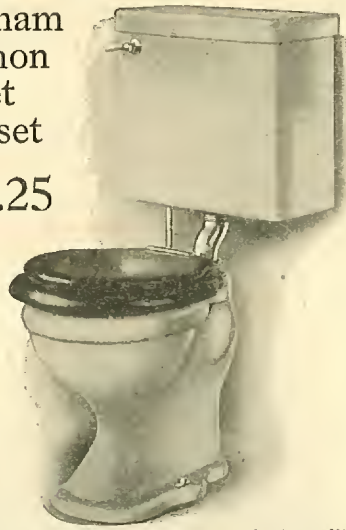
\$27.25



181T6425—Best quality vitreous China tank with lid, white glazed and not affected by alkaline water. Flushing device is of latest type with compound lever ball cock, copper ball float and rubber float valve. White China lever. Latest syphon-jet bowl, quiet and effective. Molded from best quality white vitreous earthenware. Seat is strongly constructed of birchwood, coated with genuine white celluloid applied in a thick coat by a special process. Easily washed and of attractive appearance. Has nickel-plated extension post hinges. Nickel-plated offset 2-inch flush connection with slip joint coupling; nickel-plated supply pipe and floor flange for lead or iron pipe connection. Shipping weight, 130 pounds. Price, complete.....\$27.25

Gresham Syphon Jet Closet

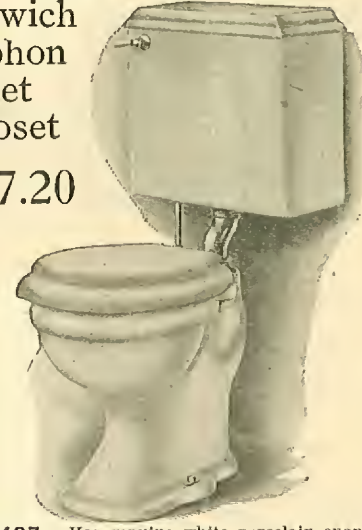
\$24.25



181T6461—Tank and lid are of best quality vitreous China, white glazed on outside not affected by alkaline water. Tank has latest flushing mechanism, with compound lever ball cock, copper ball float and rubber float valve. White China lever. Bowl is the latest syphon-jet type, efficient and noiseless. Molded from best quality vitreous earthenware, smooth white glazed inside and out. Seat is of strong construction, mahogany finished, with nickel-plated extension post hinges. Nickel-plated offset, 2-inch flush connection, with slip joint coupling; nickel-plated supply pipe and floor flange for lead or iron pipe connections; also nickel-plated floor screws and washers. Shipping weight, 130 pounds. Price, complete.....\$24.25

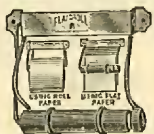
Norwich Syphon Jet Closet

\$27.20



181T6427—Has genuine white porcelain enameled tank of cast iron. Flushing device is of latest type with compound lever ball cock, copper ball float, and rubber flushing valve with white China lever. Alkaline or mineral waters will not harm tank. Bowl is of best quality vitreous earthenware; latest syphon-jet flushing, practically noiseless. Birchwood seat, heavily coated with genuine white celluloid. Easily kept spotless. Nickel-plated offset connection from tank to bowl, slip coupling. Nickel-plated supply pipe and floor flange. For iron or lead pipe connection. Shipping weight, 140 pounds. Price, complete.....\$27.20

Accessories You'll Need



50c

Holder for Flat Roll Paper

81T6395—A strongly made fixture for holding either flat or roll toilet paper. Nickel-plated brass. This holder is loaded easily and has a heavy roller of ebonized wood with rubber friction rings that prevent the roll from racing. Releases only one sheet at a time when used with the block paper. To load with roll the metal arm is lifted up and the roll simply slipped on the roller. Flat paper is attached to frame under friction roll. A necessity that will more than pay for itself. Shipping weight, 8 ounces. Each.....50c

Roll Toilet Paper Holder

81T6391—Nickel-plated brass, with ebonized wood roller. Width, 5 1/4 inches. With nickel-plated screws for attaching. Shipping weight, 6 ounces. Each.....24c



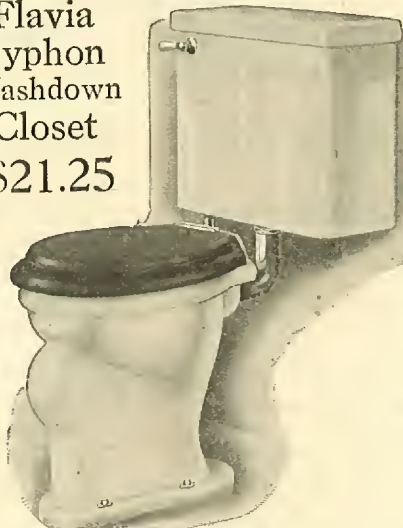
Madison Toilet Paper



57T6637—Perforated Paper, extra quality Manila, crepe finish. Width, 4 1/2 inches. Shipping weight, per dozen rolls, 7 pounds. 3 rolls22c
Dozen rolls76c
157T6540—Per case (100 rolls). Ship. wt., 54 lbs. Price.....\$6.15

Flavia Syphon Washdown Closet

\$21.25



181T6460—Box-shaped lid and tank are of smooth, white glazed vitreous China impervious to alkaline water. Equipped with latest flushing mechanism with compound lever ball cock, copper ball float, rubber float valve, and white China lever. Bowl is of best quality white vitreous earthenware. It has positive flushing action. Strong mahogany finished seat with nickel-plated extension post hinges. Nickel-plated slip-joint elbow flush-connection from tank to bowl. Nickel-plated supply pipe to floor and flange. For lead or iron pipe connection. Nickel-plated screws and washers to fasten bowl to floor. Shipping weight, 120 pounds. Price, complete.....\$21.25

Closet Bowl Construction

Our closet bowls are molded from solid vitreous white china, white glazed inside and out. Checking or crazing of the surface with resulting absorption and bad odor can not occur.

A constant level is maintained in the water trap by means of re-fill tube in tank, thus absolutely preventing the leakage of sewer gas.

The Syphon-Washdown type of closet bowl insures a positive flushing and is one that will give entire satisfaction. Water is admitted from tank through a number of small holes around inner rim of bowl so that no point is left unwashed.

The Syphon-Jet type of bowl is graceful in appearance and represents the newest ideas in closet bowl construction. It is almost noiseless and absolutely efficient. The water is discharged into the bowl from numerous small holes around the rim and is also projected into discharge passage from an aperture at the bottom.

This stream is submerged and rushes up silently and with great force, creating powerful suction and quietly drawing contents of bowl into soil pipe.

How to Install Closet

Cut off iron closet bend to the right length at rings on outlet with hack saw or cold chisel. Then calk same well into tee in soil pipe stack. See illustrations on first pages of this catalogue.

Screw down adjustable flange on inlet and calk same. Set bowl on bend temporarily in order to get correct height and position for tank.

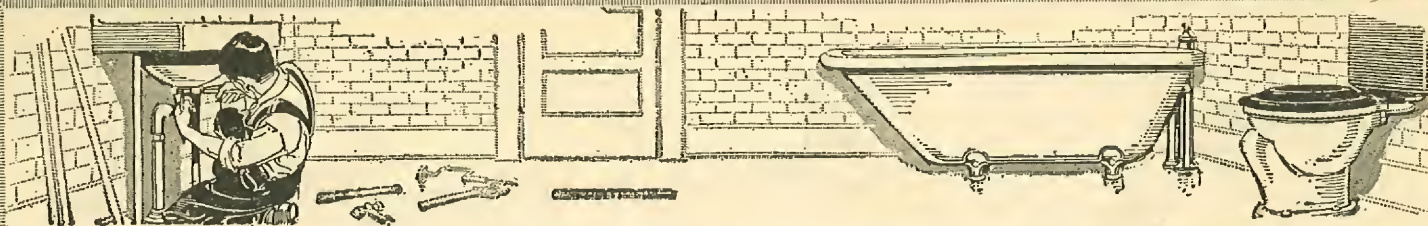
Fasten tank to concealed wall hanger that is screwed fast to side wall.

Insert a good ring of putty or our special rubber gasket around outlet of closet and screw same down to flange with brass bolts which are furnished.

Connect up with adjustable nickel plated flush connections. Do not force too tightly on closet bowl spud as it is delicate and easily loosened. Tighten both lock nuts on bottom of closet tank.

Water supply is on left side of tank; carry straight up from floor.

When plain closet bend is used, a lead and iron ferrule is calked into inlet hub of bend and the lead end is flanged over on floor, ready for the rubber gasket that seals closet bowl connection.



Attractive Lavatories That You Yourself Can Install



Dudley Lavatory
\$7.35

Genuine White Enameled Cast Iron Lavatory. Half circle pattern with attractive deep rim. Size, 18x21 inches, with 11x14-inch bowl. Height of back, 8 inches. Has concealed wall hangers. Enamel will not chip or crack.

181T6554—Lavatory only, without faucets, pipes or stopper. Ship.

wt., 110 lbs. Each.....**\$7.35**

181T6556—Lavatory complete, with nickel-plated traps and pipes to floor. China-indexed compression faucets. For lead pipe connection. Ship. wt., 120 lbs. Each.....**\$14.75**

181T6559—Lavatory complete, with nickel-plated trap and pipes to wall. China-indexed compression faucets. For lead pipe connection. Ship. wt., 120 lbs. Each.....**\$14.50**

Note—If 1½-inch slip joint iron pipe connection is wanted, mention this and add 50c.

Genuine White Porcelain Enameled Cast Iron Lavatory. This lavatory makes a real ornament in any bathroom or bedroom. Straight wall pattern, with deep rim and high back. Size of slab, 18x24 inches, with 11x16½-inch bowl. Height of back, 10 inches. Has a graceful white porcelain-enameled center leg. Lavatory is cast from gray iron, beautifully enameled a rich white color. Furnished complete with concealed wall hangers and necessary bolts for attaching ornamental leg.



\$7.30

Sherwin Lavatory

White Porcelain Enameled Cast Iron Lavatory. Full square slab. Size, 18x24 inches. Height of back, 10 inches. Size of bowl, 12x15 inches. Concealed wall hangers.

181T6548—Lavatory only, without pipes, faucets or stoppers. Shipping weight, 110 pounds. Each.....**\$7.30**

181T6547—Lavatory complete, with nickel-plated trap and pipes to floor. China-indexed compression faucets. For lead pipe connection. Shipping weight, 120 pounds. Each.....**\$14.70**

181T6549—Lavatory complete, with nickel-plated trap and pipes to wall. China-indexed compression faucets. For lead pipe connection. Shipping weight, 120 pounds. Each.....**\$14.45**

Note—If 1½-inch slip joint pipe connection is wanted, mention this and add 50c.



Norwood Lavatory
\$6.55

Genuine White Porcelain Enameled Cast Iron Lavatory. Size of slab, 16 x 19 inches. D-pattern bowl. Size 10½x14½ inches. Height of back, 6 inches. Lavatory has a 3-inch rim. Bottom of apron has a raised border. Lavatory has a liberal size bowl, but is very compact.

Cast from the best quality gray iron, heavily coated with genuine white porcelain enamel. The enamel will not crack or chip. Furnished complete, with concealed wall hangers.

181T6550—Lavatory only, without faucets, pipes or stopper. Shipping weight, 80 pounds. Each.....**\$6.55**

181T6551—Lavatory complete, with nickel-plated trap and pipes to floor. China-indexed compression faucets. For lead pipe connection. Shipping weight, 90 pounds. Each.....**\$13.95**

181T6552—Lavatory complete, with nickel-plated trap and supply pipes to wall. China-indexed compression faucets. For lead pipe connection. Shipping weight, 130 pounds. Each.....**\$13.70**

Note—If 1½-inch slip joint iron pipe connection is wanted, mention this and add 50c.

Waverly Lavatory
\$8.95

Genuine White Porcelain Enameled Deep Rim Lavatory. Ornamental design. Size, 18x24 inches, with 12x15-inch oval bowl. Height of back, 10 inches. Concealed wall hangers. Enamel will not chip or peel.

181T6562—Lavatory only, without faucets, pipes or stopper. Ship.



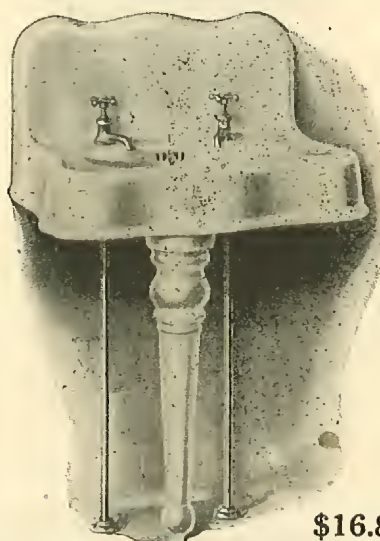
wt., 120 lbs. Each.....**\$8.95**

181T6564—Lavatory complete, with nickel-plated traps and pipes to floor. China-indexed compression faucets. For lead pipe connection. Ship. wt., 130 lbs. Each.....**\$16.35**

181T6563—Lavatory complete, with nickel-plated trap and pipes to wall. China-indexed compression faucets. For lead pipe connection. Ship. wt., 130 lbs. Each.....**\$16.10**

Note—If 1½-inch slip joint iron pipe connection is wanted, mention this and add 50c.

Folkstone Lavatory



\$16.80

Illustrates Supply Pipes to Floor

181T6570—Lavatory only, without faucets, pipes or stopper. Ship. wt., 130 lbs. Each.....**\$16.80**

181T6569—Lavatory complete, with nickel-plated trap and supply pipes to floor, as illustrated, and china-indexed compression faucets, and chain with rubber stopper. For lead pipe connection. Shipping weight, 160 pounds. Each.....**\$24.30**

181T6571—Lavatory complete, but with trap and pipes to wall. Shipping weight, 160 pounds. Each.....**\$24.05**

Note—If 1½-inch slip joint pipe connection is wanted, mention this and add 50c.

\$4.65



Sheffield Lavatory

Genuine White Porcelain Enameled Cast Iron Lavatory. Half Circle Pattern. Size 16x19 inches. Height of back, 6 inches. Width, 10½x13-inch bowl. Has concealed cast iron wall hangers. Enamel will not chip or peel. A neat, small lavatory at a very low price.

181T6540—Lavatory only, without pipes, faucets or stopper. Shipping weight, 80 pounds. Each.....**\$4.65**

181T6542—Lavatory complete, with nickel-plated pipes, trap to floor. China-indexed compression faucets. For lead pipe connection. Shipping weight, 90 pounds. Each.....**\$12.05**

181T6541—Lavatory complete, with nickel-plated pipes and trap to wall. China-indexed faucets. For lead pipe connection. Each.....**\$11.80**

Note—If 1½-inch slip joint iron pipe connection is wanted, mention this and add 50c.

Bradford Lavatory
\$5.60

Genuine White Porcelain Enameled Cast Iron Corner Lavatory. For use where space is limited. Lengths on sides, 16 inches. Size of bowl, 11x14 inches, with patent overflow. Height of back, 6 inches. Concealed cast iron wall hangers.

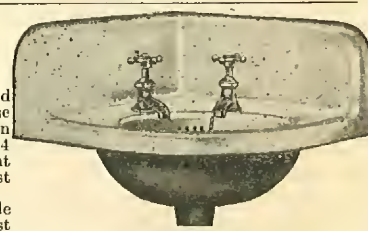
Lavatory is cast from the best grade of gray iron, heavily coated with best quality ivory white enamel, carefully applied. Will not crack or peel.

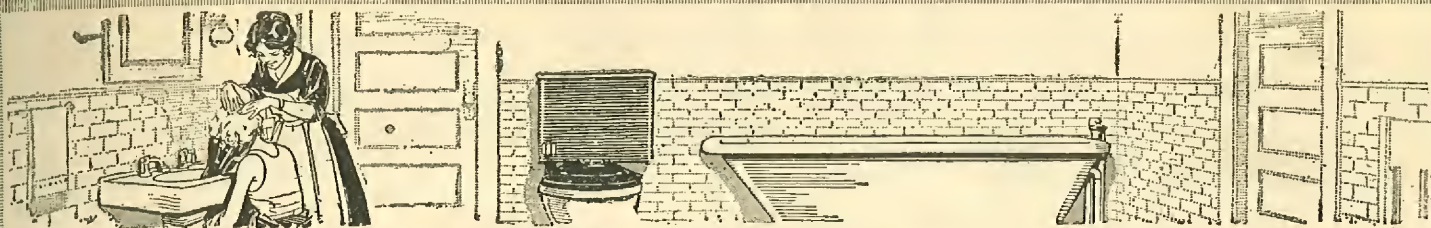
181T6572—Lavatory only, without faucets, pipes or stopper. Shipping weight, 70 pounds. Each.....**\$5.60**

181T6573—Lavatory complete, with nickel-plated trap and pipes to floor. China-indexed compression faucets. For lead pipe connection. Shipping weight, 80 pounds. Each.....**\$13.00**

181T6578—Lavatory complete, with nickel-plated trap and pipes to wall. China-indexed compression faucets. For lead pipe connection. Shipping weight, about 80 pounds. Each.....**\$12.75**

Note—If 1½-inch slip joint iron pipe connection is wanted, mention this and add 50c.





Lavatories That Combine Beauty and Service



Drexel Lavatory
\$9.70

Genuine White Porcelain Enameled Cast Iron Lavatory, full square slab type with rounded corners. Length, 24 inches; width, 18 inches. Bowl, 12x15 inches. Height of back, 10½ inches. An elegant and gracefully

designed straight wall lavatory. Smooth white porcelain enamel, free from defects. Concealed wall hangers.

181T6558—Lavatory only, without pipes, faucets or stopper. Shipping weight, 110 pounds. Each.....**\$9.70**

181T6557—Lavatory complete, with nickel-plated trap and pipes to floor, and china indexed compression faucets. For lead pipe connection. Ship. wt. 120 lbs. Each.....**\$16.25**

181T6560—Lavatory complete, with nickel-plated trap and pipes to wall, and china indexed compression faucets. For lead pipe connection. Ship. wt. 120 lbs. Each.....**\$16.10**

Note—If 1¼-inch slip joint iron pipe connection is wanted, mention this and add 50c.

Genuine White Porcelain Enameled Iron Pedestal Lavatory. Enamel is applied by a special process which insures a hard and fast contact and a smooth, white surface. Lavatory is built in two separate parts—the top slab with bowl, and the pedestal. Equipped with the very latest type of Ideal Fixing waste fitting with white china index. Waste fixture is of brass, nickel-plated. Faucets are of the latest Fuller type nickel-plated, with white china indexed handles for hot and cold water.



Stanhope Lavatory
\$9.45

Genuine White China Lavatory. Molded in one piece from vitreous china ivory white glazed finish. Round front pattern with recessed slab. Very artistic in appearance. Concealed wall brackets. Length of slab across back, 21 inches. Width from wall, 18 inches. Height of back, 6 inches. Size of bowl, 11x15 inches.

181T6592—Lavatory only, without fittings. Shipping weight, about 75 pounds. Each.....**\$9.45**

181T6594—Lavatory complete. With two china-indexed compression faucets, nickel-plated trap and pipes to floor. For lead pipe connection. Shipping weight, about 80 pounds. Each.....**\$16.05**

181T6593—Lavatory complete. Same as above, with pipes and trap to wall instead of floor. For lead pipe connection. Each.....**\$15.95**

Note—If 1¼-inch slip joint iron pipe connection is wanted, mention this and add 50c.



Soffolk Lavatory
\$6.05

Genuine White Porcelain Enameled Lavatory. Has D pattern slab, with rounded front. Size, 18x21 inches. Size of bowl, 11x14 inches. Height of back, 8 inches. Smooth white porcelain enamel. Concealed wall hangers.

181T6544—Lavatory only, without trap, pipes, or stopper. Shipping weight, 90 pounds. Each.....**\$6.05**

181T6546—Lavatory complete, with nickel-plated trap and supply pipes to floor. Compression faucets with china-index handles. For lead pipe connection. Ship. wt. 100 lbs. Each.....**\$12.29**

181T6545—Lavatory complete, with nickel-plated trap and pipes to wall. Compression faucets with china-index handles. For lead pipe connection. Ship. wt. 100 lbs. Each.....**\$12.08**

Note—If 1¼-inch slip joint iron pipe connection is wanted, mention this and add 50c.

Dinsmore Lavatory
\$9.65

Genuine White Porcelain Enameled Corner Lavatory, Deep Rim. Cast in one solid piece with 11x14-inch bowl. Height of back, 8 inches. This is an ideal fixture for places where a corner lavatory is desired.



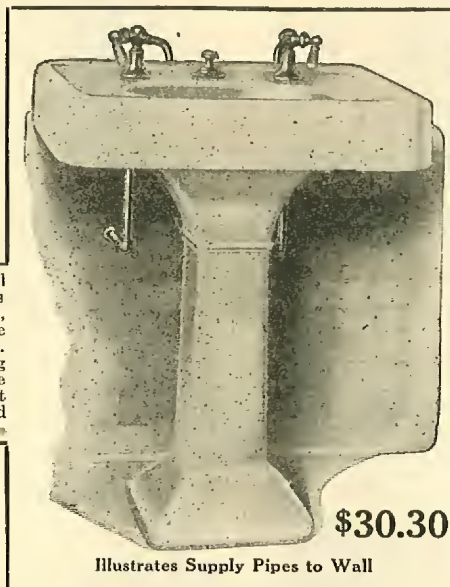
Enamel is white and smooth. Concealed wall hangers.

181T6566—Lavatory only, without pipes, trap or stopper. Ship. wt., 95 lbs. Each.....**\$9.65**

181T6568—Lavatory complete, with nickel-plated pipes and trap to floor, and china indexed compression faucets. For lead pipe connection. Ship. wt., 100 lbs. Each.....**\$16.25**

181T6585—Lavatory complete, with nickel-plated pipes and trap to wall, and china indexed compression faucets. For lead pipe connection. Ship. wt., 100 lbs. Each.....**\$16.10**

Note—If 1¼-inch slip joint iron pipe connection is wanted, mention this and add 50c.



\$30.30

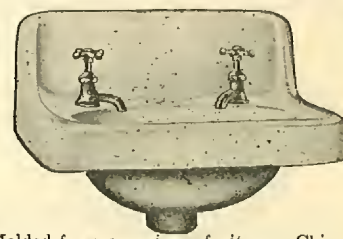
Illustrates Supply Pipes to Wall

Complete with Trap and Pipes to Wall as Illustrated. For lead pipe connection.

181T6586—Lavatory complete. Length of slab, 24 in. Width, front to back, 20 in. Size of bowl, 12x15 in. Ship. wt., 200 lbs. Each.....**\$30.30**

181T6587—Lavatory complete. Length of slab, 27 in. Width, front to back, 22 in. Size of bowl, 12x15 in. Ship. wt., 240 lbs. Each.....**\$33.80**

Note—If 1¼-inch slip joint iron pipe connection is wanted, mention this and add 50c.



Kimberly Lavatory
\$9.50

Genuine White China Lavatory. Molded in one piece of vitreous China, ivory-white glazed finish. A very high grade fixture. Large, square pattern slab with rounded corners, length, 20 inches; width, 18 inches. Height of back, 6 inches. Size of bowl, 11x15 inches.

181T6590—Lavatory only, without pipes, trap, or stopper. Shipping weight, 65 pounds. Each.....**\$9.50**

181T6589—Lavatory complete, with nickel-plated trap and pipes to floor. Nickel-plated compression faucets, china-indexed. For lead pipe connection. Shipping weight, 75 lbs. Each.....**\$16.24**

181T6591—Lavatory complete, with nickel-plated pipes and trap to wall. Nickel-plated compression faucets, china-indexed. For lead pipe connection. Shipping weight, 75 pounds. Each.....**\$16.15**

Note—If 1¼-inch slip joint iron pipe connection is wanted, mention this and add 50c.

Whitehall Lavatory
\$15.00

Genuine White Porcelain Enameled One-piece Corner Lavatory. Straight wall type with corner piece. Front of lavatory faces outward from wall instead of from corner. This does away with the crowded effect so noticeable in the regular corner lavatory.

Size of slab, 18x24 in. Bowl, 11x16½ in. Ht. of back, 10 in.

Lavatory only, without trap, pipes or stopper. Ship. wt., 135 lbs.

181T6574—With right-hand end piece, as pictured. Each, freight paid.....**\$15.00**

181T6575—With left-hand end piece. Each.....**\$15.00**

Lavatory complete, with nickel-plated trap and pipes to floor, and compression faucets. For lead pipe connection. Shipping weight, 145 pounds.

181T6576—With right-hand end piece. Each.....**\$21.75**

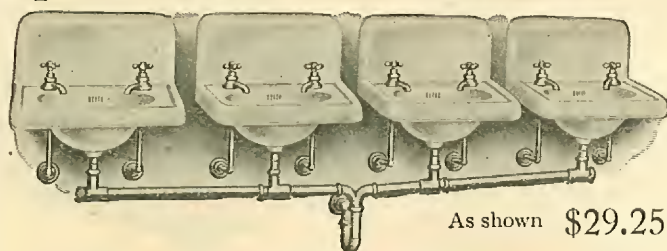
181T6577—With left-hand end piece. Each.....**\$21.75**

Note—If 1¼-inch slip joint iron pipe connection is wanted, mention this and add 50c.





Special Lavatories and Fountains For Schools, Factories, etc.



As shown \$29.25

Center Outlet Lavatory Range

181T6531—Lavatory Range, consisting of any number desired from two to ten, of our White Porcelain Enamelled Cast Iron Lavatories. Similar to our No. 181T6548. Large slab, full square front type with roll rim and rounded corners. Length of lavatory across back 24 inches. Width from wall, 18 inches.

Outfit is furnished complete, with all nickel-plated slip-joint waste connections of heavy, nickel-plated tubing, connected for center discharge, as shown in illustration. Waste pipe discharge into heavy nickel-plated half S trap for connection to wall, as shown. For schools, factories and similar places these lavatory ranges are the most serviceable, sanitary and economical wash room equipment you can install.

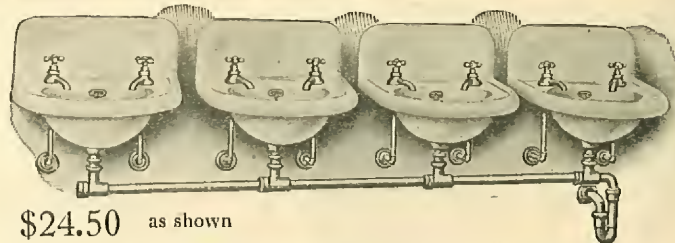
Each lavatory is furnished complete, with heavily nickel plated compression basin cocks, and China indexed handles, nickel-plated chain and rubber stopper and nickel-plated supply pipes to wall, with wall flanges. Lavatories are supported from wall by concealed wall hangers.

Height of back, 10 inches. Size of bowl, 11x15 inches. When ordering, be sure to mention number of lavatories wanted, and allow price below for each lavatory. Shipping weight of each lavatory, about 110 pounds.

Two lavatories connected in battery with all fittings as described. Price..... **\$29.25**

For each additional lavatory add.... **\$14.25**

Note—If wanted for iron pipe connection, add 50c to entire cost after you have figured cost of complete outfit.



\$24.50 as shown

Side Outlet Lavatory Range

181T6530—Lavatory Range, consisting of any number desired, from two to ten White Porcelain Enamelled Cast Iron Lavatories, with all connections as shown in illustration. Lavatories are similar to our No. 181T6544, described in this catalogue. D pattern bowl with roll rim. Size of slab, 18x21 inches. Height of back, 8 inches. Size of bowl, 11x14 inches.

Lavatories are furnished complete with nickel-plated supply pipes to wall, with nickel-plated flanges, also nickel-plated connecting waste pipe with slip-joint connections, by which all lavatories are connected to a common point at end of range, where connection is made to nickel-plated half S trap to wall. All this waste connecting pipe is of heavily nickel-plated brass tubing.

Connections are of the slip-joint type, so that the lavatories can be very easily connected up. This outfit makes one of the most practical, sanitary and economical wash room outfits on the market for school or factory installation. Each lavatory is fitted with nickel-plated compression basin cocks, with China indexed handles, nickel-plated chain and rubber stopper and heavy cast iron concealed wall hangers. When ordering, be sure to mention the number of lavatories wanted. Shipping weight of each lavatory, about 90 pounds.

Two lavatories connected in battery with all fittings as described. Price..... **\$24.50**

For each additional lavatory, add.... **\$12.00**

Note—If wanted for iron pipe connection, add 50c to entire cost after you have figured cost of complete outfit.

We Furnish

these lavatory ranges with supply and waste connection to floor or to wall, at the same price. Be sure to mention your preference when ordering.

Basin Bowls For Marble Slabs



\$2.90

Round Enamelled Iron Basin

White Porcelain Enamelled Cast Iron Round Basin. With patent overflow and nickel-plated strainer. Diameter, 13 1/2 inches. Shipping weight, 20 pounds.

81T6606—White porcelain enamelled inside. Painted outside. Each..... **\$2.90**

81T6607—White porcelain enamelled inside and out. Each..... **\$4.10**

Oval Enamelled Iron Basin

White Enamelled Cast Iron Oval Basin. With waste plug, rubber stopper, and patent overflow. Nickel-plated strainer. Size 14x17 inches. Shipping weight, 25 pounds.

81T6608—White Porcelain, enamelled inside. Painted outside. Each..... **\$3.60**

81T6609—White Porcelain, enamelled inside and out. Each..... **\$4.85**



\$1.25

Round Earthenware Basin

81T6602—Round, Glazed White, Earthenware Basin. With patent overflow. Price is for basin only, without fittings. See 81T6605 for metal basin plug. Outside diameter, 14 inches. Shipping weight, about 20 pounds. Each..... **\$1.25**

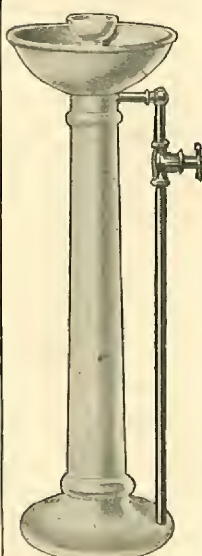
Oval Earthenware Basin

81T6603—Glazed White Earthenware Oval Basin. Size 14x17 inches. With patent overflow, for metal plug. Price is for basin only. No fittings. See 81T6605 for metal basin plug. Shipping weight, 20 pounds. Each..... **\$2.30**

Wrought Steel Basin

81T6600—Seamless Wrought Steel Wash Basin. Diameter 14 1/2 inches. Light gray, enamelled inside and out. Furnished with overflow. Nickel-plated coupling and plug. Furnished only for lead pipe connection. Shipping weight, 3 pounds. Each..... **\$2.48**

Bubbler Drinking Fountains



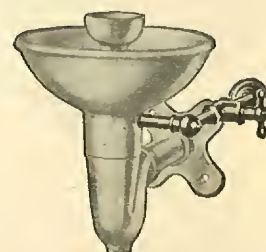
Venice
Pedestal
Bubbler

\$10.25

Of attractive appearance and built for service in public schools, public meeting halls, parks, etc. Has a porcelain enamelled iron bowl and painted base. Vitreous white china bubbler. With 5/8-inch nickel-plated self closing stop and a 1-inch galvanized supply pipe and a 1-inch galvanized waste pipe.

Diameter of bowl, 11 inches; depth, 3 1/2 inches. Distance from floor to top of bowl, 30 or 36 inches. Shipping weight, about 70 pounds.

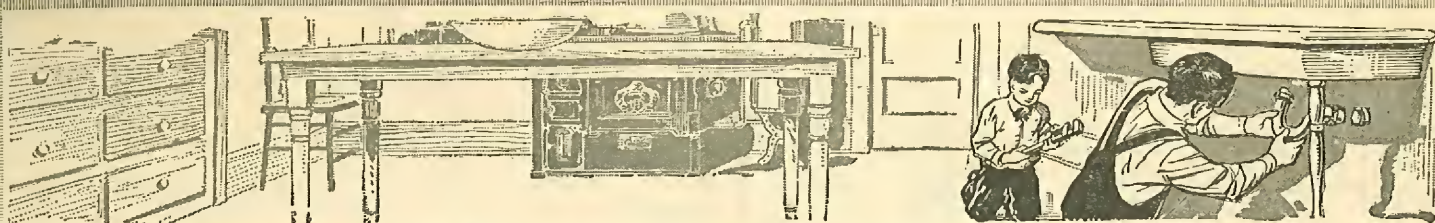
181T6596—Fountain, bowl enamelled inside, painted outside. Each..... **\$10.25**



Muro Wall Bubbler
\$9.95

The Muro Wall Drinking Fountain is the ideal sanitary bubbler for places where conservation of space is essential. It is firmly fastened to the wall with a large galvanized iron flange. Fitted with a vitreous white china bubbler and painted iron trap. Has a 5/8-inch nickel-plated self closing stop, a 5/8-inch galvanized supply pipe and a 1-inch galvanized waste pipe. The diameter of the bowl is 10 inches. Depth 3 1/2 inches. It is a good looking and a very strongly made fixture. We recommend it highly on account of its simplicity of construction and convenience. It may be placed on the wall at any height that is desired. Shipping weight, about 20 pounds.

181T6598—Fountain, bowl enamelled inside, painted outside. Each..... **\$9.95**



Ornamental Kitchen Sinks That Are Convenient



Sink Only
\$33.15
Windsor Deep
Rim Sink

This kitchen sink with its massive construction and attractive deep apron is one of the best we have to offer. The entire sink and back is made in one solid piece, cast from the best grade of gray iron, carefully smoothed and finished. Length, 52 inches; width, 20 inches. Height of back, 12 inches.

The entire outside surface of the sink is coated with best quality genuine white porcelain enamel, applied by a special process which insures a hard and fast contact between the enamel and the iron, and renders chipping or peeling of the enamel impossible.

Sink has waste outlet in center and nickel-plated strainer. There are two faucet holes, for hot and cold water. Furnished with concealed wall hangers for attachment to wall. Height of legs is adjustable.

No seams to harbor dirt or grease, no sharp corners to injure the hands. Made either with left or right hand drain board. Mention preference. Shipping weight, about 215 pounds.

Prices do not include trap or faucets.

181T6661—Sink only, with **Left-hand** drain board, as illustrated. With cast iron concealed wall hangers and ornamental legs. Each.....**\$33.15**

181T6663—Sink only, with **Right-hand** drain board. With wall hangers and ornamental legs. Each.....**\$33.15**

If either of above sinks are wanted complete with $\frac{1}{2}$ -inch nickel-plated Fuller flanged faucets for hot and cold water, and $\frac{1}{2}$ -inch nickeled P-trap to wall, for iron pipe connection, mention this and add.....**\$4.95**



Sink Only
\$37.25
Crescent Deep
Rim Corner
Sink

A fine, one-piece sink, with end piece to prevent splashing against side-wall at corner. Made of heavy cast iron, with genuine white porcelain enamel over outside. Will not chip or crack during a lifetime of use. Size, 52x20 inches. Height of back, 12 inches.

We can furnish this sink with end piece at either right or left-hand. Drain board is always on opposite end of corner piece. Height of legs is adjustable. If the plan of your kitchen is such that a corner sink can be used, we certainly recommend this fixture to you. We know of no higher grade sink, no matter what the price.

Prices do not include trap or faucets.

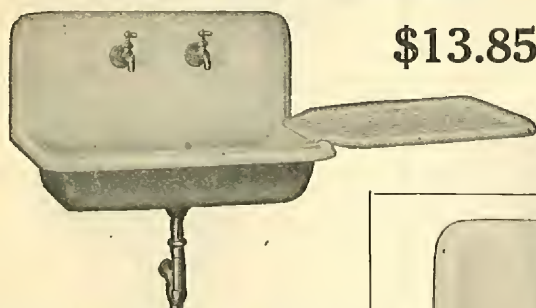
Shipping weight of above trimmings, about $5\frac{1}{4}$ pounds. Made with drain board at either left or right hand. Mention preference. Shipping weight about 230 pounds.

181T6665—Sink only, with **Right-hand** end piece, and left-hand drain board, like illustration. With cast iron concealed wall hangers and ornamental legs. No other fittings. Each.....**\$37.25**

181T6666—Sink, with **Left-hand** end piece, and right-hand drain board. With concealed iron wall hangers and ornamental legs. No other fittings. Each.....**\$37.25**

If either of above sinks are wanted complete with $\frac{1}{2}$ -inch nickel-plated Fuller flanged faucets for hot and cold water, and $\frac{1}{2}$ -inch nickeled P-trap to wall, all fitted for iron pipe connection, mention this and add.....**\$4.95**

Melville Roll Rim Sink



\$13.85

White Porcelain Enameled. With one detachable grooved drain board. Back and sink cast in one piece. Drain board fits either end of sink. Supported with iron wall bracket. Sink is supported by iron concealed wall hangers. Height of back, 12 inches. Length of drain board, 24 inches.

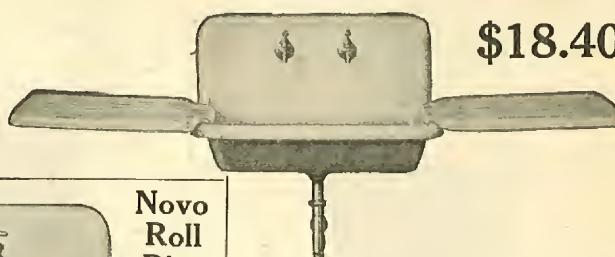
Prices include nickel-plated strainer, bolts, trap coupling, drain board with bracket and concealed wall hangers. Faucets or trap not included.

Article Number	Sink, Inches	Shipping Weight	Each
181T6646	18x30	170	\$13.85
181T6647	20x30	195	14.80
181T6648	20x36	205	17.65

83T5449—Nickel-plated Fuller Flanged Faucets, $\frac{1}{2}$ -inch pipe thread. Ship. wt., $1\frac{1}{4}$ lbs. Each.....**\$1.10**

81T6870—Nickel-plated Half-S-Trap, $\frac{1}{2}$ -inch. For iron pipe connection. Shipping weight, 5 pounds. Each.....**\$2.95**

Montrose Roll Rim Sink



\$18.40

White Porcelain Enameled. With two detachable roll rim drain boards. The double drain boards give ample room for unwashed dishes and for those that are drying.

Sink is supported from wall by concealed iron brackets. Each drain board has iron wall bracket. The porcelain enamel will not crack or peel off. Height of back, 12 inches. Length of drain board, 24 inches.

Prices include nickel-plated strainer, bolts, trap couplings, drain. Faucets or trap not included.

Article Number	Sink Inches	Shipping Weight	Each
181T6656	18x30	290 lbs.	\$18.40
181T6657	20x30	320 lbs.	19.60
181T6658	20x36	340 lbs.	24.50

83T5449—Nickel-plated Fuller Flanged Faucets $\frac{1}{2}$ -inch pipe thread. Ship. wt., $1\frac{1}{4}$ pounds. Each.....**\$1.10**

81T6870—Nickel-plated Half-S-Trap, $\frac{1}{2}$ -inch. For iron pipe connections. Shipping weight, 5 pounds. Each.....**\$2.95**



**Novo
Roll
Rim
Sink
\$9.45**

One-piece Roll Rim Kitchen or Pantry Sink. White enameled iron. Suspended by concealed iron wall hangers. Height of back, 12 inches. Prices given below are for sink with concealed wall hangers, nickel-plated strainer and bolts. Faucets and trap extra.

181T6650—Size, 18x30 in. Ship. wt., 125 lbs. Each.....**\$9.45**

181T6651—Size, 20x30 in. Ship. wt., 135 lbs. Each.....**\$9.95**

181T6652—Size, 20x36 in. Ship. wt. 160 lbs. Each.....**\$14.85**

81T6870—Nickeled Half S Trap, $\frac{1}{2}$ in. Each.....**\$2.95**



Spacious Sinks Mean Cleanliness and Satisfaction



Sink Only
\$26.35

Erie Corner Sink with Drain Board

White Porcelain Enameled Sink, with corner back. An ideal corner sink. Sink body, drain board, long back and end are all cast in one solid piece.

Sink is of very artistic design, with heavy roll rim and ribbed enameled iron drain board. There are no seams whatever in this sink for grease, etc., to accumulate. Height of back, 12 inches. Size of sink, 20 by 28 inches. Size of drain board, 20 by 24 inches. Total length of sink, 52 inches. Sink is supported from wall by concealed hangers.

We can furnish sink with end piece at either right or left hand end. Drain board is always on opposite end to the end piece.

Prices quoted below are for sink only, with nickel-plated strainer, bolts, and concealed wall hangers. Prices do not include legs, faucets or trap.

181T6644—With Right Hand end piece and left hand drain board, as illustrated. Shipping weight, 215 pounds. Each.....\$26.35

181T6645—With Left Hand end piece and right hand drain board. Shipping weight, 215 pounds. Each.....\$26.35

181T6640—Cast iron adjustable ornamental legs for above sink. Shipping weight, 40 pounds. Per pair.....\$1.75

83T5449—Nickel-plated Fuller flanged faucets for hot or cold water. For 1/2-inch iron pipe thread. Shipping weight, 1 1/4 pounds. Each.....\$1.10

81T6870—Nickel-plated Half-S-trap, 1 1/2-inch. For iron pipe connection. Shipping weight, 3 pounds. Each.....\$2.95



Sink Only
\$21.50

Melrose Long Back Kitchen Sink

White porcelain enameled sink, with drain board. Heavy roll rim construction, rounded corners, no sharp edges or seams to accumulate grease, etc., or to injure the hands. Sink is suspended from wall, on heavy concealed iron hangers.

We can furnish sink with enameled iron drain board at either right or left hand end. Cast in one piece, without seams.

Size of sink, 20 by 28 inches. Length of drain board, 24 inches. Height of back, 12 inches. Total length of sink, 52 inches.

Prices quoted below are for sink only, as described, with nickel-plated strainer bolts, trap coupling and concealed wall hangers. These prices do not include faucets, trap or iron legs.

181T6643—Sink with Left Hand drain board, as illustrated. Shipping weight, about 200 pounds. Each.....\$21.50

181T6642—Sink with drain board on Right Hand side. Shipping weight, 200 pounds. Each.....\$21.50

181T6640—One pair cast iron, adjustable, ornamental legs for above sink. Shipping weight, 40 pounds. Per pair.....\$1.75

83T5449—Nickel-plated Fuller flange faucets, for hot or cold water. For 1/2-inch iron pipe thread. Shipping weight, 1 1/4 pounds. Each.....\$1.10

81T6870—Nickel-plated Half-S-trap, 1 1/2-inch. For iron pipe connection. Shipping weight, 3 pounds. Each.....\$2.95

Southey High Back Mop Sink



\$18.25

On
Trap
Base

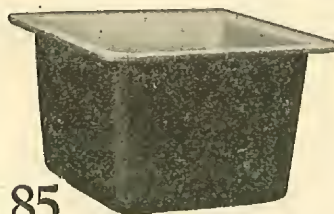
281T6536—Cast iron porcelain enameled mop sink. Attractive roll rim. Mounted on cast iron trap base with cleanout. Waste outlet is 4 inches in size. Connection is made in same manner as to a closet bowl. Outlet has nickel-plated strainer.

Sink is fitted with two 1/2-inch flanged compression faucets, threaded for iron pipe connection. Inside of sink, surface of back, and roll rim are heavily enameled in smooth white porcelain finish. Outside and the base are painted gray. A high-grade, perfectly sanitary fixture. Complete with faucets, back, and trap as shown.

Size Inches	Ship. wt., Pounds	Price
16x20x12 deep	180	\$18.25
18x22x12 deep	180	20.50
20x24x12 deep	200	22.85

Shipped from factory.

Marcus Iron Mop Sink Enameled Inside



\$4.85

281T6535—Flat rim cast iron mop sink. With nickel-plated strainer and bell outlet, and trap coupling for 1 1/2 or 2-inch lead trap connection. White porcelain enameled inside. Outside painted gray. This sink is practically the same as a regular cast iron flat rim kitchen sink, except that it is smaller and deeper.

Connected in the same manner as any of our kitchen sinks. Makes a very handy, inexpensive sink for installation in basement or laundry, for emptying out scrub pails, etc. Can be set either in wooden frame or on brackets.

Size Inches	Ship. wt., Pounds	Price
16x16x10	35	\$4.85
16x20x12	50	6.15
20x22x12	80	8.10

Shipped from factory.

Weldon Flat Rim Mop Sink



\$11.20

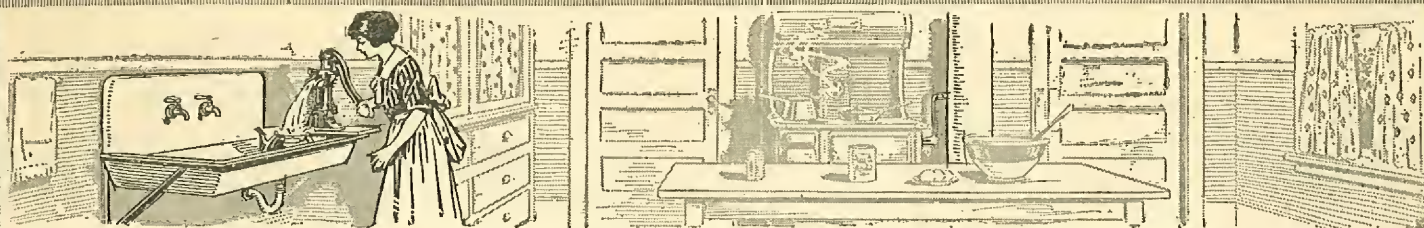
On
Trap
Base

281T6538—White enameled, cast iron flat rim mop sink. Mounted on heavy, cast iron Trap Standard, as shown in illustration. Sink is fitted with nickel-plated brass strainer, and bolts for attaching to trap. Size of trap, 4 inches. Connection is made to this fixture with a regular lead bend, in the same manner as to a closet bowl.

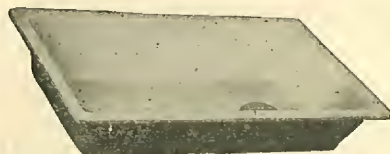
Trap has cleanout plug for cleaning. Owing to the large size of the trap, there is no chance of its becoming stopped up or giving trouble. Sink is painted on outside and trap is painted to match sink. White enameled inside.

Size Inches	Ship. wt., Pounds	Price
16x16x10	60	\$11.20
16x20x12	80	12.25
20x22x12	120	15.30

Shipped from factory.



General Utility Sinks Made in a Variety of Sizes



\$4³⁰

Ashley Flat Rim Iron Sink

181T6660—White Porcelain Enameled Cast Iron Flat Rim Kitchen Sinks. Best grade of this style on the market. The porcelain enamel is applied by special perfected process which absolutely insures a perfectly smooth white surface. Sinks are painted on the outside. Furnished complete with strainer, bolts and coupling, for connection to 1 1/4-inch or 1 1/2-inch lead trap.

Can be mounted on cast iron brackets or set in wooden frame work, with drain board at one end or both ends as preferred. When trimmed up in this way with one of our cast iron roll rim sink backs, shown on this page, it makes a neat appearing, serviceable sink. See our special iron pipe connections and iron traps for these sinks. Sinks can be furnished with iron pipe couplings at 15c extra.

Sizes, Inches	Shipping weight, pounds	Each
18x30x6	60	\$4.30
18x36x6	70	6.13
20x30x6	70	4.80
20x36x6	80	6.80
20x40x6	90	8.10

81T6876—1 1/2-inch long lead S trap, for above sink, for 1 1/2-inch iron pipe connection. Shipping weight, 7 pounds. Each.....\$1.87

Marston Flat Rim Steel Sink



\$4¹⁶

Pressed from one solid piece of sheet steel. Three different styles—white porcelain enameled, galvanized and painted. Each sink is fitted with plain brass strainer, bolts and trap collar, for either 1 1/4-inch or 1 1/2-inch lead pipe, or 1 1/2-inch iron pipe connection. Prices do not include trap.

Size, Inches	Shipping Weight, pounds	181T6674 Painted Each	181T6675 Galvan'd Each	181T6676 White Enameled Each
16x24	9	\$1.56	\$1.96	\$4.16
18x30	14	2.00	2.50	4.80
18x36	16	2.50	3.05	5.30
20x30	15	2.35	2.95	5.60
20x36	18	2.86	3.36	6.31
20x40	19	3.37	3.97	7.10

81T6876—1 1/2-inch long lead S trap for above sink. For 1 1/2-inch iron pipe connection. Shipping weight, 7 pounds. Each.....\$1.87
81T6689—Combination Rubber Plug and Strainer, for dish washing. Each.....30c

Cast Iron Sink Brackets



37c

Ornamental design. Made adjustable, to fit all ordinary sinks. These brackets are of heavy cast iron and will stand indefinitely. Size, 11 1/2 x 15 inches. Wood screws, for fastening to wall, or bolts are not included. Shipping weight, per pair, 4 1/2 pounds.
81T6705—Painted. Per pair.....37c
81T6706—Galvanized. Per pair.....78c
 Size, 11 1/2 x 15 inches.

Novella Sink and Force Pump Outfit



\$10⁸⁵

Pump will draw water from your cistern or well (if not more than 25 ft. below pump), and force it up into storage tank in your attic with very little exertion in pumping. The special design of this pump with the long, rocking fulcrum makes it very easy working. Pump is tapped for 1 1/4-inch suction pipe and faucet spout threaded for 3/4-in. hose.

The sink is our Number 181T6660 White Porcelain Enameled Cast Iron Kitchen Sink, with flat rim. Outfit includes one special patented steel sink frame, with brackets attached and wooden end piece for pump support, as shown in illustration. Shipping weight, 90 pounds.

81T6745—Complete, with 18x30-inch sink. Each.....\$10.85
81T6746—Complete, with 18x36-inch Sink. Each.....\$12.70
81T6876—1 1/2-inch long lead S trap with 1 1/2-inch iron pipe thread for above Sink. Shipping weight, 7 pounds. Each.....\$1.87
181T6742—Steel Sink Frame and Brackets only, without sink or pump. For 18x30-inch Sink. Shipping weight, 10 pounds. Each.....99c
 For 18x36-inch Sink. Shipping weight, 12 pounds. Each.....\$1.10

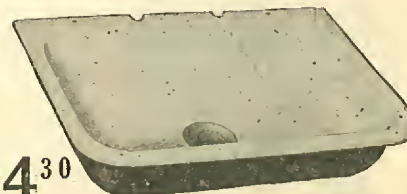
Eastport Sink and Pitcher Spout Pump Outfit



\$7³⁰

The Pump furnished with this outfit has 3-inch cylinder bore. Fitted for 1 1/4-inch iron pipe connection. Lifts water quickly and easily. Can be used only where water is not over 20 feet below pump.

The sink is one of our Number 181T6660 cast iron white porcelain enameled kitchen sinks, with flat rim, with a cast iron sink trap Number 181T6688 threaded for 1 1/4-inch iron pipe. Outfit includes one special patented steel sink frame, with brackets attached and wooden end piece for pump support, as shown in illustration.
181T6740—Outfit complete, with 18x30-inch sink. Shipping weight, 90 pounds. Each.....\$7.30
181T6741—Outfit, complete, with 18x36-inch sink. Shipping weight, 100 pounds. Each.....\$9.25
181T6742—Steel Sink Frame and Brackets only, without sink or pump. For 18x30-inch sink. Shipping weight, 10 pounds. Each.....99c
 For 18x36-inch sink. Shipping weight, 12 pounds. Each.....\$1.10



\$4³⁰

Argo Roll Rim Steel Sink

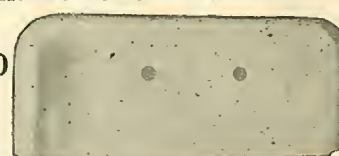
Pressed from one solid piece of sheet steel. This tank is intended to be mounted on brackets for open plumbing. No wooden frame work required. We furnish these sinks in three different styles—white porcelain enameled, galvanized and painted. The enameled sinks are white inside and blue outside.

Prices below are for sinks only, with plain brass strainer, bolts and trap coupling, for 1 1/4-inch or 1 1/2-inch lead pipe, or 1 1/2-inch iron pipe. Trap or brackets are not included. For price of brackets, see below:

Size, Inches	Shipping Weight, Pounds	181T6677 Painted Each	181T6678 Galvan'd Each	181T6679 Enameled Each
16x24	30	\$1.80	\$2.15	\$4.30
18x30	40	2.12	2.70	5.34
18x36	54	2.80	3.31	6.15
20x30	50	2.65	3.19	5.96
20x36	55	3.18	3.71	6.66
20x40	60	3.75	4.25	7.50

81T6876—1 1/2-inch long lead S trap, for above sink. For 1 1/2-inch iron pipe connection. Shipping weight, 7 pounds. Each.....\$1.87
81T6689—Combination Rubber Plug Strainer for dish washing. To fit above sink. Ship. wt., 1/2 lb. Each.....36c

Cast Iron and Wrought Steel Enameled Sink Backs

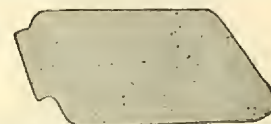


\$3¹⁰

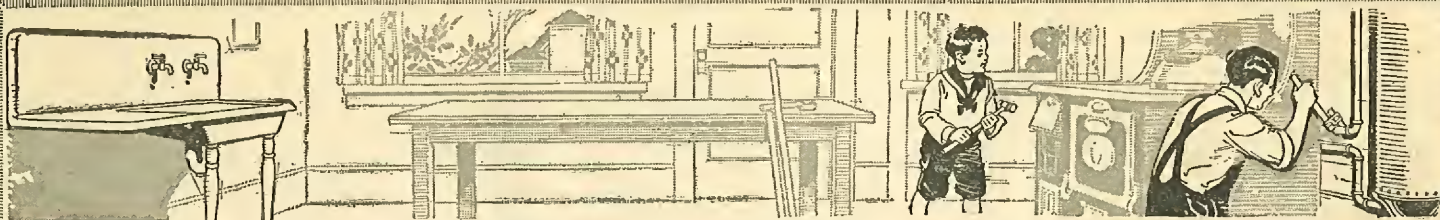
181T6664—Cast Iron White Porcelain-Enameled Sink Backs. Height, 12 inches. For use with our cast iron flat rim sinks. Back has holes for two faucets, and heavy roll rim.
 Length, inches. 24 30 36 40
 Ship. wt., lbs.. 22 30 40 45
 Each.....\$2.84 \$3.16 \$3.76 \$4.55
181T6680—Wrought Steel White-Enameled Roll Rim Sink Backs. Height, 16 inches. Has two openings for faucet. For use with our steel or cast iron sinks.
 Length, inches. 24 30 36 40
 Ship. wt., lbs.. 22 24 25 28
 Each.....\$3.10 \$3.90 \$4.10 \$5.05

White Enameled Drain Board

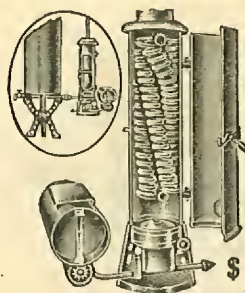
\$4⁵⁵



White Porcelain Enameled Cast Iron Roll Rim Drain Board. For flat or roll rim sinks. Interchangeable. Can be placed at either end of sink. Furnished complete, with heavy iron bracket for end support.
181T6668—Size, 18x24 inches. For all sinks 18 inches wide. Shipping weight, 40 pounds. Each.....\$4.55
181T6669—Size, 20x24 inches. For use with sinks 20 inches wide. Shipping weight, 50 pounds. Each.....\$4.85



Have Plenty of Hot Water Whenever You want it



\$1825

Warren Kerosene Heater

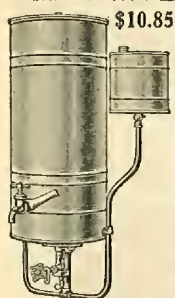
181T7817—A very economical and quick heating kerosene heater. It contains four heavy copper coils, each eight feet long, both ends of which are brazed into bronze metal manifolds. Each coil is tested at a water pressure of 250 pounds before leaving the factory.

Notice the half turn of the coils which baffles the flame and thus utilizes the greatest possible amount of heat. This turn of the coils also prevents any possibility of backdrafts.

The reservoir holds one gallon of kerosene which will last for twelve hours continuous burning. Height, 28 1/4 inches. Ship. wt., 60 lbs. **\$18.25** Each.

Mohawk Bath Heater

\$10.85



Entirely self-contained. The tank is made of heavy sheet steel, 26 gauge, nickel-plated finish, with metal coil in bottom. It is safe and simple, and will heat sufficient water for a bath in thirty minutes. Requires no plumbing. Can be furnished for either city gas or gasoline. Be sure to make no mistake when ordering. Size of tank, height, 26 inches; diameter, 12 inches. Capacity, 10 gallons. Loose cover on top for filling with water. Ship. wt., 50 lbs.

281T6496—For gas. Each, **\$10.85**

281T6497—For gasoline. Ea. **10.85**

Shipped from factory, Southern Michigan.

Galvanized Range Boilers

\$14⁵⁰

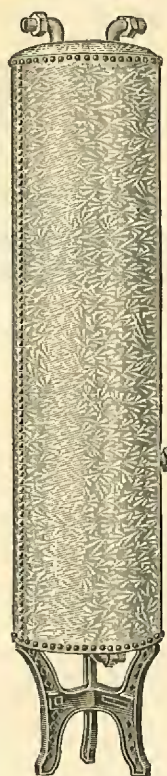
Range boilers are used for storing hot water under pressure. They are intended to be connected with a heating coil in kitchen stove or furnace, or with gas or kerosene heater. Water circulates from the tank through the heating device and back to the tank, so that a constant supply of hot water is always available.

Cold water is supplied to the top and carried down through a tube inside of the boiler, and discharged near the bottom. Hot water is drawn off from the top. As soon as a hot water faucet is opened the hot water is forced out through the top, the cold water coming in at the bottom of the tank through the tube.

Standard Boilers

181T6719—Guaranteed one year. Made of galvanized steel. Tested to 200 pounds pressure. If maximum pressure exceeds 85 pounds, we recommend our extra heavy range boilers.

Trade Size Gals.	Hght. Ins.	Ship. Wt. Lbs.	Price
30	60	85	\$14.50
40	60	100	19.37
52	60	120	24.14



\$17⁵⁰

To anyone having a modern water supply system, attic storage tank or city water supply, a tank of this kind is indispensable. Full instructions for connecting, etc., furnished with each boiler on request. A 30 gallon boiler is sufficient for the requirements of an ordinary household. If an unusual amount of hot water is demanded, we recommend the 40 gallon size. Each boiler furnished complete with stand, tube, and couplings, for 3/4-inch iron pipe connection.

If boiler only is wanted without stand, tube, or couplings, deduct \$1.75 from prices listed.

Prices are subject to market changes.

Extra Heavy Boilers

181T6728—Guaranteed for 3 years. Made of extra heavy galvanized steel, strongly riveted. Tested at 250 pounds. For use in all cases where water pressure exceeds 85 pounds.

Trade Size Gals.	Hght. Ins.	Ship. Wt. Lbs.	Price
30	60	92	\$17.50
40	60	110	21.80
52	60	135	27.70



Boiler Couplings

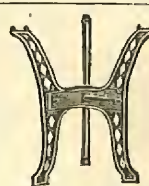
81T6729—For making connection to range boiler. Fitted with standard 3/4-inch iron pipe thread. Complete set consists of four couplings made of iron, heavily galvanized. Each coupling fitted with union joint, as shown. Shipping weight, 5 pounds. **\$1.25** Per set.

Boiler Stands

181T6730—

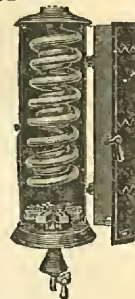
Castiron. Adjustable to fit either 30 or 40 gallon boiler. A very strong and durable stand, of neat appearance.

No range boiler is complete without one of these stands. Shipping weight, about 4 pounds. **48c** Each.



Easton Gas Heater

181T7822—A very rapid heater. Has a heavy 3/4-inch seamless drawn copper tube made up into a double coil. Jacket is of cast iron. Front half of jacket is hinged and opens outwardly. Heavy cast iron burner in bottom. Fitted for 3/4-inch water pipe connection. Gas valve tapped for 1/2 inch pipe. Shipping weight, 50 pounds. **\$8.65** Each.



Macon Gas Heater

181T7821—Black sheet steel casing. Conical shape of coil gives maximum heating efficiency. Suitable for 30 gallon boiler. Cast iron burner. Coil is made of a solid, seamless drawn copper tube, in single piece, with couplings at top and bottom for connection to 3/4-inch iron pipe. Shipping weight, 25 lbs. **\$5.90** Each.



Climax Water Heater



81T7875—This heater is placed directly above the fire in your heating boiler or warm air furnace, and connection made to the piping system in the ordinary manner. The cold water enters the heater at the bottom, circulates through the multiple arms and out through the top. Our 12-inch size will easily heat a good size room when connected to a hot water radiator.

Diam., Inches	Ht., Inches	Tap- ping, Inches	Shipping Weight, pounds	Heating Cap. Gals., Hours	Each
5	3	1	3	30	\$2.30
6	3	1	4	35	2.50
8	4 1/2	1 1/4	13	75	4.80
12	6	2	55	125	6.85

Little Wonder Water Heater



\$10⁵⁰

268T999—A very inexpensive and effective stove for heating 30 gallons of water per hour. Made with a hollow section fitted in back of fire pot. Keeps the kitchen warm. It consumes very little fuel and can be put to a wide variety of uses. The top is always handy for washing, ironing or cooking. Size of top, 21x22 inches; height, 23 inches; diameter of firepot, 11 1/2 inches. Size of water pipe, 3/4 inch; smoke pipe collar, 6 inches; size of lids, 8 in. Ship. wt., 125 lbs. Each, **\$10.50**

Shipped from Warehouse in Eastern Pa.

Giant Windsor Tank Heater

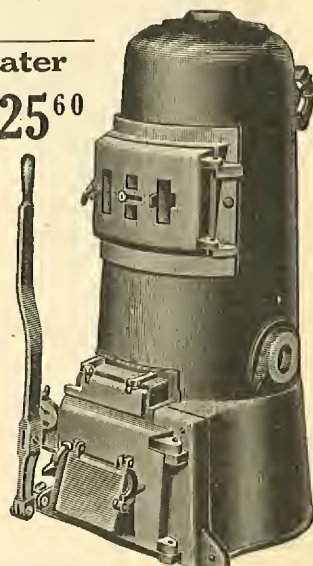
Where a great deal of hot water is needed, we recommend the Giant Windsor. This is one of the most efficient cast iron water heaters made and one of the most economical in fuel consumption. It has the greatest possible water surface exposed to the fire which means fuel saved.

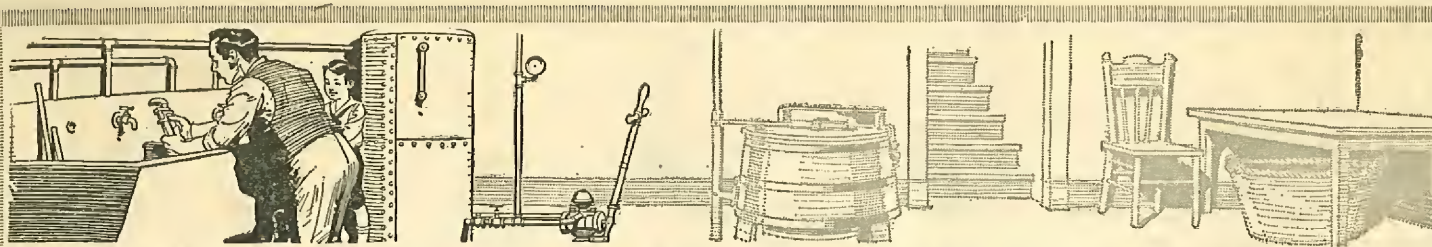
It is very simply made, and easy to fire, being especially designed to heat water in tanks for domestic uses. It can also be used to heat poultry houses, small green-houses, small swimming pools, and baptistries. It can be used also for small hot water heating plants where the radiation used is from 100 to 150 square feet.

The tank capacity, given in the table below, means the amount of water the two sizes will heat per hour, from 40 degrees to 200 degrees Fahrenheit.

Article Number	281T7878	281T7879
Diameter of Grate.....	12 inches	14 inches
Height.....	38 inches	42 inches
Tappings.....	1 1/2 inches	2 inches
Diameter of Smoke Pipe.....	5 inches	6 inches
Tank Capacity.....	250 gallons	350 gallons
Shipping Weight.....	300 pounds	400 pounds
Price.....	\$25.60	\$33.40

Shipped from factory near Buffalo, N. Y.





Stoneware Laundry Tubs Stand For Modern Convenience



Morey Single Tub

Moulded in one solid piece, of special granitine composition, slate color. Rounded inside corners. Ornamental iron legs. Top edges reinforced with patent metallic rim. A very neat and compact tub, and is especially to be recommended where space is limited or washing is light. Furnished with or without hinged galvanized steel covers.

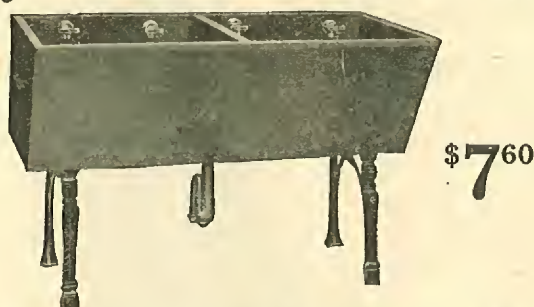
Prices quoted below do not include faucets or trap.

Length in.	Width in.	Depth in.	Ship. wt., lbs.	281T- 6690 No Cover Each	281T- 6715 With Cover Each
24	21	16	200	\$4.00	\$5.25
24	22	16	225	4.25	5.50
25	24	16	250	4.50	5.75

Shipped from Factory, Eastern N. Y.

81T6700—Stub Pattern Compression Laundry Tub Bibbs, with flange, for above tub. Fitted for 1/2-inch iron pipe connection. Shipping weight, 1 lb. Each.....**50c**

81T6863—Short Lead S Trap, 1 1/2-inch. For iron pipe connection. Shipping weight, 5 pounds. Each....**\$1.46**



Atlas Double Laundry Tub

Double compartment style. Moulded in one solid piece, of special granitine composition, slate color. Rounded inside corners. Top edges finished with patent metallic rim. Tub is securely mounted on ornamental cast iron legs, as shown. Has no seams to develop leaks, etc.

You will find complete satisfaction in the possession of this convenient tub. It fulfills all requirements of the ordinary household. Faucets are set below top rim. Waste outlets of both compartments are cross connected at bottom into one single outlet, so that tub requires only one trap connection. Each compartment is equipped with brass waste plug, so that it can be filled or emptied independently. Furnished with or without hinged galvanized steel covers.

Prices quoted below do not include faucets or trap.

Length Inches	Width Inches	Depth Inches	Shipping Weight, Pounds	281T6694 No Cover Each	281T6703 With Covers Each
48	24	16	400	\$7.60	\$10.10
54	24	16	450	8.50	11.00
60	24	16	475	8.90	12.35

Shipped from factory in Eastern New York

81T6700—Stub Pattern Compression Laundry Tub Bibbs with flange for above tub. Fitted for 1/2-inch iron pipe connection. Shipping weight, 1 pound. Each.....**50c**

81T6863—Short Lead S-Trap, 1 1/2-inch, for above tub. Fitted for iron pipe connection. Shipping weight, 5 pounds. Each.....**\$1.46**



\$11.90

Duffield Triple Tub

Three compartments, moulded in one solid piece of special granitine composition, slate color, with rounded inside corners. Tub has no seams whatever. Mounted on three pairs of heavy ornamental cast iron legs, as shown. Top edges are reinforced with patent metallic rim, and tub is practically indestructible. This tub requires two traps having two waste outlets. Furnished with or without hinged galvanized steel covers.

Prices quoted below do not include faucets or trap.

Length Inches	Width Inches	Depth Inches	Shipping Weight Pounds	281T6697 No Cover Each	281T6717 With Covers Each
72	21	16	600	\$11.90	\$15.65
72	24	16	650	13.50	17.75

Shipped from factory in Eastern New York

81T6700—Stub Pattern Compression Laundry Tub Bibbs with flange for above tub. Fitted for 1/2-inch iron pipe connection. Shipping weight, 1 pound. Each....**50c**

81T6863—Short Lead S Trap, 1 1/2-inch, for above tub. Fitted for 1 1/2-inch iron pipe connection. Shipping weight, 5 pounds. Each.....**\$1.46**

Note: This tub requires two traps.



\$9.90

Carlton Double Tub

281T6710—Tub is moulded in one solid piece, with high back, slate color. Top edges reinforced with patent metallic rim. Tub is practically indestructible. Securely mounted on heavy, ornamental cast iron legs. Tub requires only one trap for waste connection. Each compartment equipped with brass plug stopper, so that it can be filled or emptied independently. The high back feature prevents splashing. Requires only one trap for waste connection.

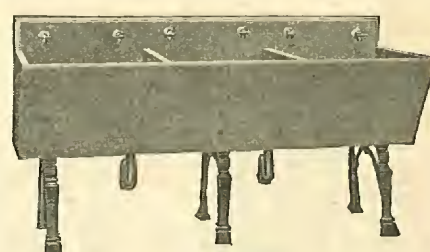
Prices below do not include faucets or trap.

Length Inches	Width Inches	Depth Inches	Ship. Weight Pounds	Each
48	24	16	450	\$9.90
54	24	16	500	12.50
60	24	16	525	12.60

Shipped from factory, Northern Illinois

81T6700—Stub Pattern Compression Laundry Tub Bibbs with flange, for above tub. Fitted for 1/2-inch iron pipe connection. Shipping weight, 1 pound. Each.....**50c**

81T6863—Short Lead S Trap, 1 1/2-inch. For iron pipe. Shipping weight, 5 pounds. Each.....**\$1.46**



\$15.50

Medford Triple Tub

281T6714—A highly satisfactory laundry tub made in three compartments. Moulded in one solid piece, of special granitine composition, slate color. Rounded inside corners. Top edges reinforced with patent metallic rim. Tub is securely mounted on three pairs of heavy ornamental cast iron legs, as shown. For service and convenience we could not give you a better tub at any price. High back prevents splashing. Tub is practically indestructible. A very desirable fixture where any considerable amount of washing is done. Tub requires two traps for waste connection.

Prices below do not include faucets or trap.

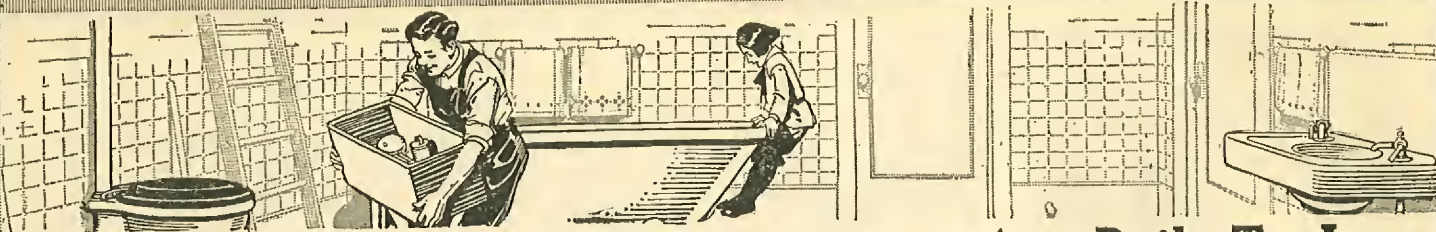
Length Inches	Width Inches	Depth Inches	Shipping Weight Pounds	Each
72	24	16	700	\$15.50
80	24	16	775	17.40
90	24	16	850	18.80

Shipped from factory in Northern Illinois

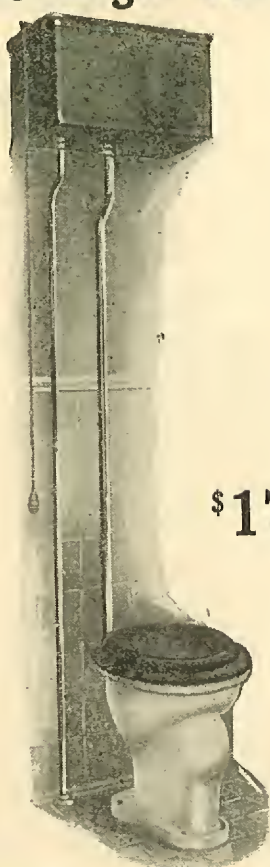
81T6700—Stub Pattern Compression Laundry Tub Bibbs with flange for above tub. Fitted for 1/2-inch iron pipe connection. Shipping weight, 1 pound. Each....**50c**

81T6863—Short Lead S Trap, 1 1/2-inch, for above tub. Fitted for 1 1/2-inch iron pipe connection. Shipping weight, 5 pounds. Each.....**\$1.46**

Note: This tub requires two traps.



These High Tank Closet Combinations Are Built To Last



\$17⁵⁵

Ionia Syphon Wash-Down Closet

Copper-lined golden oak tank with rounded corners. Has latest type of goose neck, flushing valve, with chain and lever pull, and compound lever ball cock with adjustable corrugated copper ball float. Seat, ring and cover are of golden oak. Closet bowl is of syphon washdown pattern, molded in one piece of vitreous earthenware, white glazed inside and out. Outfit complete with 1 1/4-inch nickel-plated flush pipe, with slip joint connection for connecting tank to bowl and nickel-plated 3/4-inch supply pipe from tank to floor. Nickel-plated floor screws and washers for fastening bowl to floor. Shipping weight, 95 pounds.

181T6475—Outfit complete as described. Price.....\$17.55

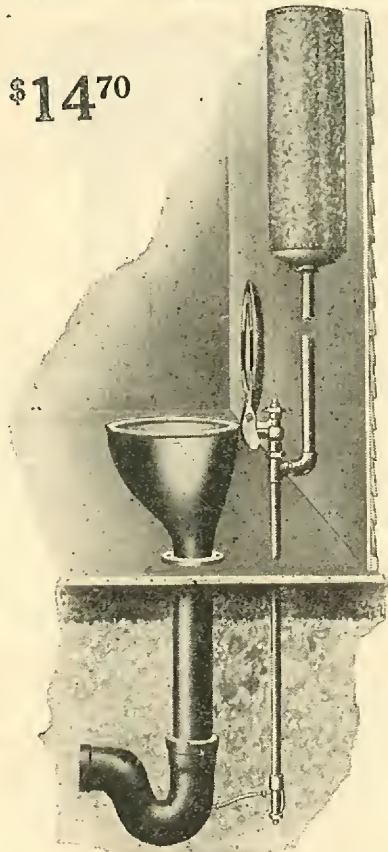
Without Supply Pipe.

Closet Combination. Same as above, except that nickel-plated supply pipe is omitted, and tank is fitted with top supply ball cock. Water supply connection is made through wall over top of tank, instead of from the floor. Shipping weight, 95 pounds.

181T6477—Outfit as described. Price.....\$17.45

Vulcan White Enameled Urinal

181T6534—The Vulcan Urinal as illustrated at the right is cast in one piece from good quality gray iron, with a roll rim back. The back and inside of bowl are coated with genuine white porcelain-enamel that will not chip or crack. It is positively sanitary because there are no seams or crevices in which accumulations might lodge. It is easily cleaned. The fixture is



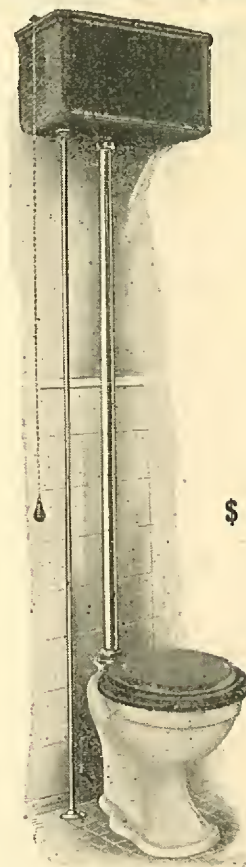
\$14⁷⁰

Grimsby Frost-Proof Closet

181T6453—An automatic positive flushing closet combination that is frostproof and intended for installation in unheated buildings. It cannot freeze up.

When the seat is lowered, inlet valve opens and water runs into storage tank until the pressure of air and water is equal. When seat raises, the inlet valve closes while flushing valve opens and water is forced into bowl. A trouble-proof and non-freezable closet.

The outfit complete consists of cast iron hopper closet bowl heavily coated inside with white porcelain enamel, painted outside; one five foot length of soil pipe; one soil pipe half S trap; pressure tank; automatic hinged seat; and automatic valve mechanism. Outfit is ready for installation when it reaches you. The closet is caked directly into soil pipe hub. Wardway Soil Pipe Cement, or lead and oakum for caking is not included. Shipping weight, about 115 pounds. Price, complete.....\$14.70



\$19⁷⁰

Marvin Syphon Jet Closet

Tank is copper-lined. Goose neck flushing valve and compound lever ball cock, with adjustable corrugated copper ball float. Syphon-jet bowl molded in one piece of best quality vitreous earthenware, white glazed. Seat and cover are strongly made. Complete with 1 1/2-inch nickel-plated flush pipe and 3/4-inch heavy nickel supply pipe from tank to floor. Nickel-plated brackets for supporting pipes. Nickel-plated chain and handle pull and nickel-plated floor screws with washers for attaching bowl to floor. Ship. wt., 100 lbs.

181T6473—Outfit as described, with golden oak tank and seat. Price.....\$21.35

181T6447—Outfit as described, with mahogany finished tank and seat. Price.....\$22.60

Without Supply Pipe.

Closet combination. Same as above except that nickel-plated supply pipe is omitted and tank is fitted with top supply ball cock. Water supply through wall over top of tank. Ship. wt., 100 lbs.

181T6472—Outfit as described, with golden oak seat and tank. Price.....\$19.45

181T6448—Outfit as described, with mahogany finished tank and seat. Price.....\$19.70

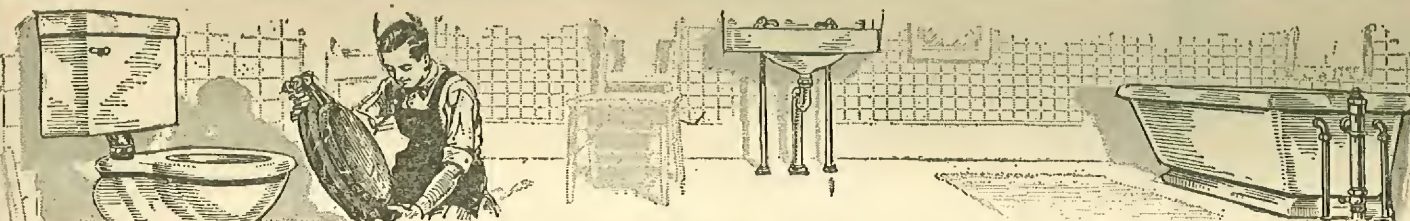


\$12⁴⁵
up

furnished with brass flush pipe and key stop cock as shown. It is fitted also with Beehive brass strainer and waste outlet, and brass coupling with tail piece.

We can furnish this urinal with connections threaded for iron pipe at an extra charge of 50c. It is made in four different lengths as follows:

Length, 24 in.,	75 lbs.	Price...	\$12.45
Length, 36 in.,	125 lbs.	Price...	15.80
Length, 48 in.,	175 lbs.	Price...	19.90
Length, 60 in.,	200 lbs.	Price...	23.95



Well Made Closet Parts Means Satisfaction to You



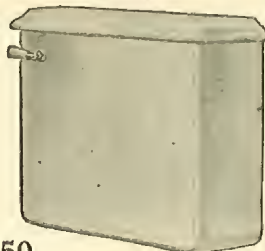
\$7¹⁰

Washdown Closet Bowl

Molded in one piece from the best quality vitreous earthenware, white glazed inside and out. The flushing action is positive and efficient. It is of the syphon washdown type. Complete with nickel-plated washers and screws for connection to floor. Shipping weight, 50 pounds.

181T6457—For use with low tank. Fitted with 2-inch brass spud. Each.....**\$7.10**

181T6474—For use with high tank. Fitted with 1½-inch brass spud. Each.....**\$7.05**



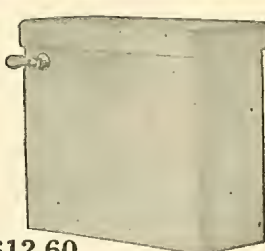
\$12.50

Porcelain Enameled Tank

Heavy Cast Iron White Porcelain Enameled Closet Tank. For low tank closets. Not affected by alkaline water. Fully ¼-inch thick, with removable iron top. Artistic design. Compound ball cock, operated by white china handle lever. Working parts are absolutely dependable. Furnished complete with nickel-plated supply pipe and floor flange, flush elbow or offset and couplings. Shipping weight, 110 pounds.

181T6464—With ell connection for syphon washdown bowl.....**\$12.50**

181T6469—With offset connection for syphon jet bowl.....**\$12.55**



\$12.60

Solid White China Tank

One of the best low closet tanks on the market. Molded in one piece from solid white china. Impervious to alkaline or mineral water. Has box-shaped lid. Fitted with compound ball cock operated by white china lever handle. Will add much to the attractive appearance of your bathroom. Furnished complete with nickel-plated flush elbow or offset and couplings, supply pipe and floor flange. Shipping weight, 80 pounds.

181T6465—With ell connection for syphon washdown bowl.....**\$12.60**

181T6466—With offset connection for syphon jet bowl.....**\$12.70**



\$9⁶⁵

Syphon Jet Closet Bowl

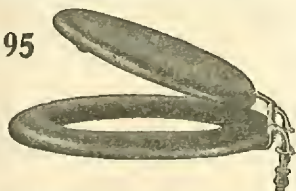
Insures absolute and practically noiseless flushing. Molded in one piece and from the best quality vitreous earthenware, glazed inside and out. Complete with nickel-plated washers and screws for connection to floor. Shipping weight, 60 pounds.

181T6458—For use with low tank. With 2-inch brass spud. Each.....**\$9.75**

181T6476—For use with high tank. Fitted with 1½-inch brass spud. Each.....**\$9.65**

Solid Oak Cover Seat

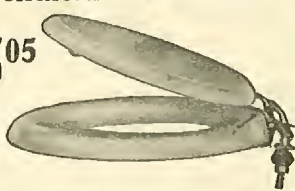
\$1⁹⁵



181T6487—Solid golden oak seat and cover. Ring pattern, with highly nickel-plated, solid brass bar hinge. Of latest cut and design. Very strongly made. Furnished complete, with rubber washers, etc., for attaching to bowl. Shipping weight, 14 pounds. Each.....**1 95**

Celluloid Coated Seat

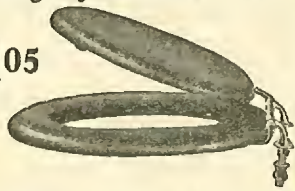
\$5⁰⁵



181T6495—Seat and cover made of hardwood covered with heavy genuine white celluloid enamel that will not chip or break. Easily kept spotlessly clean. Ring pattern with nickel-plated bar hinge. Complete with rubber washers, etc. Shipping weight, 14 lbs. Each.....**\$5.05**

Mahogany Finished Seat

\$2⁰⁵



181T6488—Seat and cover mahogany finished. Bowl pattern with highly nickel-plated solid brass bar hinge. Scientifically constructed on natural lines. Very strongly made. Complete, with rubber washers, etc., for attaching to bowl. Shipping weight, 14 pounds. Each.....**\$2.05**

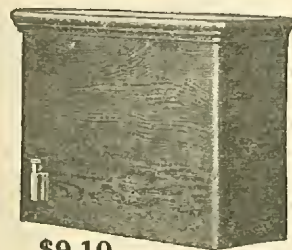
Golden Oak Closet Seat

\$1⁷⁵



181T6489—Solid golden oak seat and cover made with durable combination hinges as shown in illustration. It is of strong construction and is nicely finished. The hinges are highly nickel-plated and firmly fastened to oak back piece. Shipping weight, 41 pounds. Each.....**\$1.75**

Low Closet Tank



\$9.10

Capacity, six gallons. Lined with copper. Compound lever ball cock, ball float valve, push-button action. With nickel-plated supply pipe and floor flange and elbow or offset, with ship joint couplings. Ship. wt., 30 lbs. With elbow for wash down bowls.

181T6467—Golden Oak fin...**\$9.10**

181T6468—Mahogany fin...**9.35**

With offset, for syphon jet bowls.

181T6498—Golden Oak fin...**\$9.35**

181T6499—Mahogany fin...**9.60**

Non-freezing Iron Hopper Closet Bowls



\$1⁷⁵

181T6484—A serviceable hopper closet bowl made of cast iron. Bowl is coated inside with white enamel that will not chip or crack. The outside is painted dark red. Flushing mechanism is connected directly to ½-inch water pipe. It is direct and sure. A strongly made closet bowl that is intended for use in basements and outbuildings where there is liability of freezing. Shipping weight, 20 pounds. Each.....**\$1.75**



\$6⁷⁵

181T6480—Automatic hopper closet. Bowl is white enameled inside and painted dark red outside. Enamel will not chip or crack. It is fitted with a patent valve connected to seat so that it flushes automatically when the seat raises after being used. Seat is of light oak. A good serviceable outfit for use in basement or outside places. Requires no tank. Shipping weight 50 pounds. Each.....**\$6.75**

High Closet Tank



\$7.00

Oak or mahogany finished. Has 1½ or 1¼-inch flush pipe connection. Top or bottom supply. In ordering, be sure to state whether 1½ or 1¼-inch flush connection is wanted. Also state whether for top or bottom supply. Gooseneck syphon flushing valve, chain, and handle. Lined with copper. Nickel-plated flush or supply pipes not included.

Capacity, gallons..... 5½ 8

Ship. wt., lbs..... 30 36

181T6478—Solid oak. Each.....**\$7.00 \$7.70**

181T6479—Mahogany finish. Each.....**7.25 7.95**

Low Pattern Ball Cock



Brass, with copper ball float. Ship. wt., 1½ lbs.

181T6482—Low tank, with re-
fill. Each.....**\$1.40**

181T6485—High tank, top supply.
Each.....**\$1.40**

181T6486—High tank, bot. supply.
Each.....**\$1.35**

Rubber Ball Float Valve

Made of the best grade rubber that is heavy enough to last indefinitely and yet sufficiently pliable so that when it returns to position there is no possible chance of leaking. Shipping weight, 9 ounces.



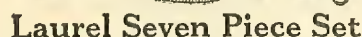
181T6481—Size, 2 inches. Each.....**37c**

Elevated Ball Cock

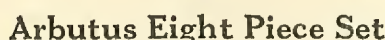


A compound lever elevated ball cock made of brass, with filler tube union and tail piece for low closet tank. Superior to the submerged type of cock in that it is more easily accessible. Shipping weight, 5 pounds.

181T6501—Each.....**\$1.75**



All fixtures are made of solid brass, heavily nickel-plated. Nickered screws included. Each is of high grade and goes to make up a set that will put the finishing touches on the convenience of your bathroom. Shipping weight, complete set, 7 pounds. **\$3.95**
Price, complete.....



brass bath robe hook.

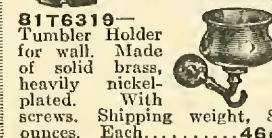
All of the above trimmings are made of heavy brass, heavily nickel-plated, and will be an ornament to any bathroom. Nickel screws included. Shipping weight, complete set, 12¼ pounds

Price, complete.....	\$5.10
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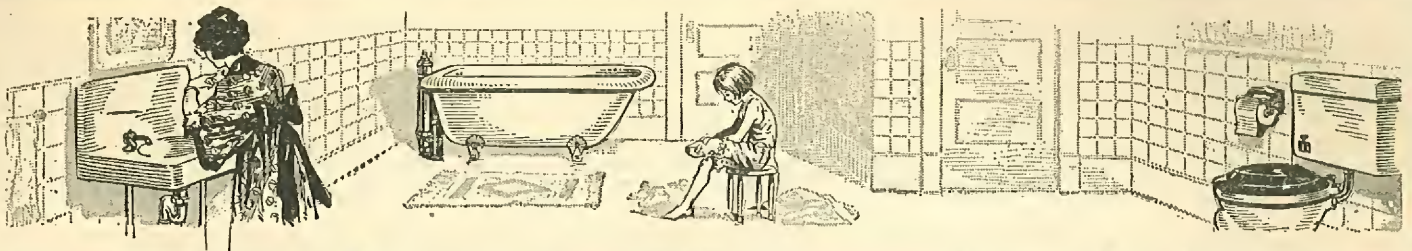
width, 5 inches, length, 18 inches.
All are made of heavy brass, heavily nickel-plated. Nickel screws included. These fixtures complete the convenience of a well furnished bathroom. Shipping weight, complete set, 6 pounds.

Price, complete.....	\$3.30
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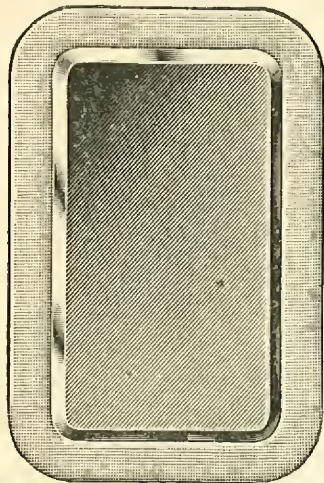


Accessories Convenient for the Bathroom

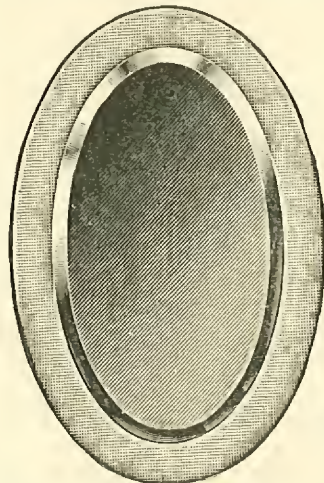
All metal parts of the fixtures listed below are high grade solid brass, heavily nickel-plated. Nickel-plated screws furnished with all articles that require them.



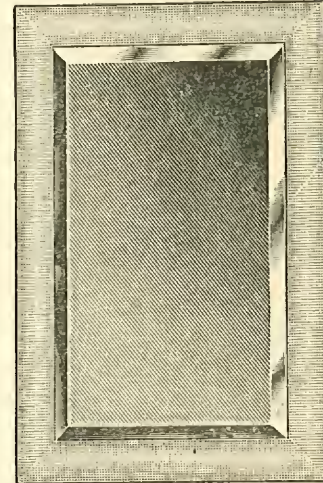
French Plate Mirrors Specially Designed for the Bathroom



\$2.85
up



\$2.85
up



\$2.20
up

181T6402—Round corner, French plate Bathroom Mirror. Hand-polished, white enameled wood frame. Square pattern, with rounded corners. No sharp edges to chip or corner joints to open up. Mirror is of finest polished French plate glass without flaws or imperfections.

Size, Inches	Shipping Weight, Pounds	Price
10x17	20	\$2.85
12x20	25	3.10
14x24	30	3.95
18x24	35	5.00
18x30	40	6.35

181T6393—Oval French plate Bathroom Mirror. Hand-polished white enameled wood frame. Oval pattern. A beautifully designed mirror that is clean and sanitary in appearance. No bathroom should be without one.

Size, Inches	Shipping Weight, Pounds	Price
10x17	20	\$2.85
12x20	25	3.10
14x24	30	3.95
18x24	35	5.00
18x30	40	6.35

181T6404—Square corner, French plate Bathroom Mirror. Hand-polished wood frame enameled and highly finished in rich white color. An appropriate mirror for use in the bathroom. Full square pattern.

Size, Inches	Shipping Weight, Pounds	Price
10x17	20	\$2.20
12x20	22	2.75
14x24	25	3.88
18x24	35	4.35
18x30	40	5.65

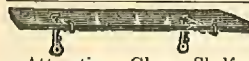
Screws included with fixtures below



\$2.54

Combination Glass Shelf and Towel Bar, with nickel-plated brass brackets. Shelf, 18x5 inches, with screws. Shipping weight, 5 pounds.

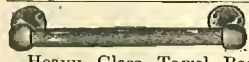
81T6360—With Clear glass shelf and bar. Each.....\$2.54
81T6362—With Opal glass shelf and bar. Each.....\$2.84



95c

Attractive Glass Shelf (width, 5 inches) with nickel-plated brass brackets for wall and screws. Ship. weights, 4 and 5 lbs.

81T6361—With Clear glass shelf 18 in. Ea.....95c 24 in. Ea.\$1.00
81T6363—With Opal glass shelf. 18 in. Ea.....\$1.10 24 in. Ea.....\$1.20



\$1.45

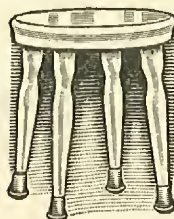
Heavy Glass Towel Bars, 1 inch thick. Brass brackets, nickel plated.

Length, inches	Ship. wt., lbs.	81T6380 Clear Glass	81T6381 Opal Glass
18	2 1/4	\$1.45	\$1.60
20	2 1/2	1.55	1.70
24	3	1.65	1.80

Bath Tub Enamels



Produce a hard, lustrous surface. One pint is sufficient to give outside of an ordinary bath tub two coats. Colors: Porcelain white, old ivory, wild rose, or green. State color wanted.
75T8162 — Quart cans. Ship. wt., 4 1/4 lbs.....90c



White Enameled Bath Stool

\$1.65

81T6400—Legs of stool are equipped with rubber tips, as shown, so that the stool can be used in the tub without injuring enamel on tub. No braces on legs to come apart or warp. Sturdy and very attractive. A very handy little stool. Diameter, 12 inches. Height 15 inches. Shipping weight, 6 pounds. Order one or two of these on our recommendation.....\$1.65

Enameled Tub Seat

80c



81T6406—Bath seat of hard wood. Coated with strong white enamel that will not chip or crack. Heavy nickel-plated hangers fit over rim of tub; rubber covered to protect enamel of tub. Fits any size tub. Strongly made and very attractive. Shipping weight, 6 pounds. Each.....80c

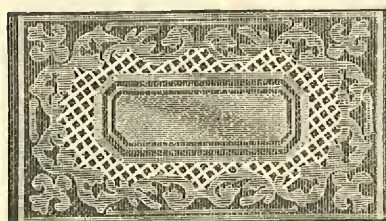
Oak Bath Tub Seat

72c



81T6405—Polished Oak Bath Tub Seat with heavy nickel-plated hangers to fit over rim of tub. Hangers are rubber covered to protect enamel of tub. Fits any size tub. Substantially made and will last a long time. No bathroom should be without one. Shipping weight, 6 pounds. Each.....72c

Fluffy Rugs for the Bathroom, 60c



use. Every home should have one or more of these rugs. At this price every home can afford one.

17T6154—Size, about 23x37 inches. Furnished in pink, blue or tan. State color wanted. Shipping weight, about 1 lb. Each.....60c

A thick, soft, absorbent fabric woven in white on colored grounds, just like the well-known Turkish towels and is reversible. Protects the floor from soiling — protects the bather from the cold floor. Easy to wash and keep clean. To be hung up when not in use.

Screws included with fixtures below



\$1.55

81T6374—Double Bar Towel Rack. Brass tubing, nickel plated.

Length, 24 inches. Ship. weight, 1 1/2 pounds. Each.....\$1.55
Length, 30 inches. Ship. weight, 1 3/4 pounds. Each.....\$1.60

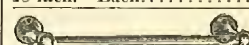


68c

Attractive Glass Towel Bar. Diam., 5/8 in. With nickel-plated brackets for wall and screws. Shipping weights, 2 and 2 1/2 pounds.

81T6376—Clear glass bar. 15-inch. Each.....68c
18-inch. Each.....73c

81T6377—Opal glass bar. 15-inch. Each.....74c
18-inch. Each.....79c



73c

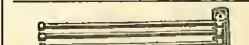
81T6370—Towel Bars, made of 1/2 inch solid brass tubing, nickel plated, with heavy base.

Length, inches..... 15 18 24
Ship. wt., oz..... 8 9 11
Each.....73c 78c 83c



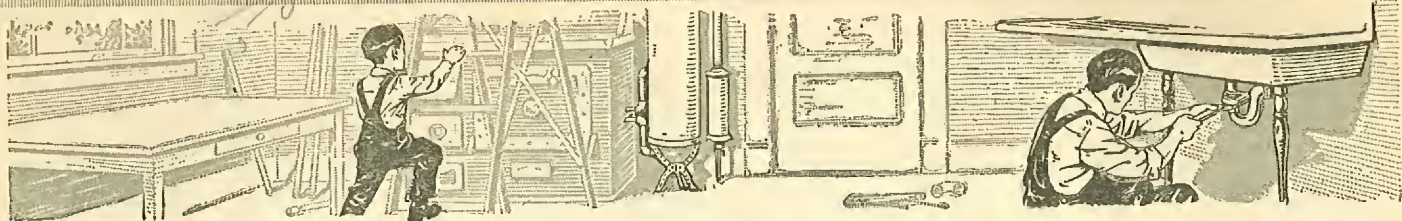
31c

81T6372—Towel Rack, made of 1/2-inch brass tubing. Nickel plated. Length, inches..... 15 18 24
Ship. wt..... 6 7 8
Each.....31c 36c 47c



77c

81T6384—Towel Racks, with three folding arms. Brass, nickel plated. Length, 13 inches. Ship. wt. 1 lb. 14 oz. Each.....77c



Lead and Cast Iron Traps Designed for Every Need

Combination Ferrule



Lead and Iron. For connecting closet to soil pipe where soil pipe runs directly beneath bowl. Lead end is to be hammered into flange.

Number	Size	Ship. wt.	
81T6844	1 1/4 x 6	3 lbs.	45c
81T6845	1 1/2 x 6	3 1/2 lbs.	46c
81T6846	2 x 10	4 1/2 lbs.	70c

For 4-inch Cast Iron Soil Pipe.

81T6347	4x12	9 lbs.	\$1.37
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Combination Bend and Ferrule



Lead and Iron. For connecting closet bowl to soil pipe stack where soil pipe runs in wall. Lead end is to be hammered into flange.

81T6850

Size	Ship. Wt.	Each
4x12	10 1/2 lbs.	\$2.25
4x14	10 1/2 lbs.	2.45
4x18	12 lbs.	2.85



Cast Iron Bath Trap

81T6860—Has short body, with outlet opening threaded for iron pipe. Outlet opening on side at top and inlet opening in center of bottom. Cover is nickel-plated on brass. Diameter, 4 inches, depth, 5 inches. Tapped for 1 1/2-inch iron pipe. Shipping weight, 8 pounds. Each.....90c



Cast Iron Drum Trap

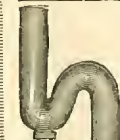
81T6862—Has short body, with outlet openings threaded for iron pipe. Inlet opening on side at bottom and outlet opening on side at top. Cover is nickel-plated on brass. Diameter, 4 inches, length, 8 1/2 inches. Shipping weight, 10 pounds. Each.....\$1.18



Standard Short Lead S Trap

81T6863—Fitted with a brass nipple for iron pipe connection on the outlet end, to connect with standard iron pipe. Has clean-out screw.

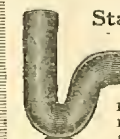
Size, in.	Ship. Wt.	Each
1 1/4	3 lbs.	\$1.05
1 1/2	5 lbs.	1.46



Standard Short Lead S Trap

81T6864—For laundry tubs or any short connection. Plain ends, for lead pipe connection. Has brass screw clean-out cap in bottom.

Size, in.	Ship. Wt.	Each
1 1/4	2 3/4 lbs.	62c
1 1/2	4 lbs.	95c

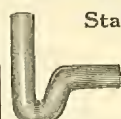


Standard Lead P Trap

81T6866—Outlet end of trap is fitted with brass nipple for iron pipe connection. Has clean-out screw.

Size, in.	Ship. Wt.	Each
1 1/4	2 1/2 lbs.	\$0.95
1 1/2	4 lbs.	1.30

Standard Lead P Trap



81T6867—For wall connection. Plain ends. Used for sinks, laundry tubs, etc. Brass clean-out screw.

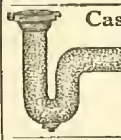
Size, inches	Ship. Wt.	Each
1 1/4	4 1/2 lbs.	54c
1 1/2	7 lbs.	77c



Cast Iron Trap S Trap

81T6868—Brass clean-out plug in bottom. Threaded for 1 1/4 or 1 1/2 inch iron pipe. Bell shaped top to match bell outlet of sink. Fastened with bolts. Used for sinks, laundry tubs, etc.

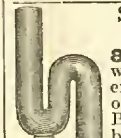
Size, in.	Ship. Wt.	Each
1 1/4	5 lbs.	\$1.19
1 1/2	8 lbs.	1.55



Cast Iron Half S Trap

81T6869—Threaded for iron pipe. Brass clean-out plug. Bell shaped top to match sink. Fastened with bolts.

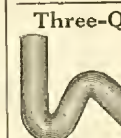
Size, inches	Ship. Wt.	Each
1 1/4	5 lbs.	70c
1 1/2	8 lbs.	90c



Standard Long Lead S Trap

81T6872—For sinks, wash basins, etc. Long enough to run from bottom of sink or bowl to floor. Brass screw clean-out in bottom. Furnished with plain ends for lead pipe connection.

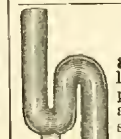
Size, in.	Ship. Wt.	Each
1 1/4	4 lbs.	\$0.92
1 1/2	6 lbs.	1.38



Three-Quarter Lead S Trap

81T6874—For connecting sinks, laundry tubs, etc., to wall or floor. A Y-branch is used in waste pipe. Brass screw clean-out.

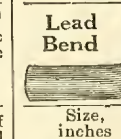
Size, in.	Ship. Wt.	Each
1 1/4	1 3/4 lbs.	62c
1 1/2	3 1/2 lbs.	83c



Standard Long Lead S Trap

81T6876—The top outlet is fitted with brass nipple for connection to standard iron pipe. Used for sinks, basins, etc., where pipes go to the floor for connection to waste.

Size, in.	Ship. Wt.	Each
1 1/4	4 1/2 lbs.	\$1.35
1 1/2	7 lbs.	1.87



Lead Bend

First figure indicates pipe size; other figures, length of ends.

81T6882—Short Lead Bends.

Size, inches	Ship. wt., lbs.	Each
2x3 1/2 x 7 1/4	2 3/4	\$0.60
4x5 1/2 x 10	7 1/2	1.50

81T6883—Long Lead Bends.

Size, inches	Ship. wt., lbs.	Each
2x7 3/4 x 7 3/4	4 1/4	\$0.80
4x10 x 10	9	1.98

Standard Lead Bath Trap



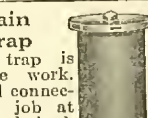
81T6885—Used for waste connection from bath tubs. Size, 4x9 in. Brass cover sets flush on floor. Fitted with brass nipples, for connecting to Standard iron pipe.

Size, inches..... 1 1/4 1 1/2

Shipping wt., pounds..... 6 6

NOTE—Price for above trap, with nickel plated cover, 25c extra.

Standard Plain Lead Bath Trap



81T6887—This trap is used for lead pipe work. Holes can be cut and connections made on the job at whatever points desired. Brass cover sets flush on floor.

Size, diameter, 4 inches, length 9 inches. Shipping weight, 4 1/4 pounds. Each.....\$2.36

NOTE—Price for above trap, with nickel plated cover, 25c extra.

Bell Trap Cesspool



81T6738—Cast Iron Bell Trap Cesspool or Floor Drain. Used for drain outlet in cement floors of basement, area ways, etc. Has bell shaped trap, which prevents any escape of sewer gas. Top plate strainer is removable for cleaning. It is easily accessible in case of clogging or stoppage. Has 1 1/2-inch outlet. Size, 6x6 inches. Shipping weight, 4 pounds. Each.....\$3.70

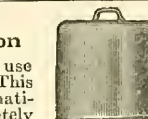
Cast Iron Cesspool Cover



81T6141—For cisterns, cesspools, catchbasins, etc. Sets on top of cistern wall, about 6 inches below ground so that all that shows above ground is the actual cover. Cover is a heavy solid casting, and will never accidentally become displaced; diameter, 19 inches. Diameter of flange at bottom, 30 inches. Shipping weight, 165 lbs. Price as shown.....\$8.10

Shipped from factory

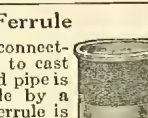
Automatic Cesspool Syphon



81T6829—For use on septic tanks. This syphon works automatically and completely drains the septic tank at regular intervals. Prevents the constant flooding of the tile distributing system. This allows time for the liquid to soak into the soil after each discharge. Made of cast iron, of simple construction and easily installed. Shipping weight, 210 pounds. Each.....\$17.75

Shipped from factory

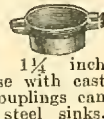
Brass Ferrule



81T6840—For connecting lead waste pipe to cast iron soil pipe. Lead pipe is connected to ferrule by a wiped joint, and ferrule is then caked into soil pipe. Size, 2x3 3/4 inches. Shipping weight, 14 ounces. Each.....\$3.30

Size, 4x4 inches. Shipping weight, 1 1/2 pounds. Each.....\$6.60

Combination Sink Coupling



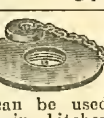
81T6687—Tapped for 1 1/4 inch iron pipe thread. For use with cast iron sinks only. These couplings can not be used with our steel sinks. Shipping weight, 1 1/2 pounds. Each.....16c

Cast Iron Sink Trap



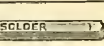
81T6688—With brass screw in bottom which may be removed for cleaning. Fitted for 1 1/4-inch iron pipe outlet. Suitable only for flat rim sinks. Will not fit roll rim sinks. Shipping wt. 4 lbs. Each.....51c

Combination Sink Plug



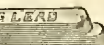
81T6689—This plug can be used instead of the strainer in kitchen sinks, etc., where it is desired to keep the sink filled with water. Can be attached to any sink in a very few minutes. Plate is heavily nickel plated and comes with rubber plug and chain. Weight, 1/2 pound. Each.....40c

Plumbers' Solder



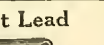
80T842—Best Grade. Sold by the bar only. Bars weigh about 1 1/2 pounds. Shipping weight 2 pounds. Price per bar.....65c (Price subject to market changes.)

Plumbers' Pig Lead



80T848—Sold only in bars of about 6 1/4 pounds. Price, per pound.....15c (Price subject to market changes.)

Best Grade Sheet Lead



81T847—The 1/4 inch weighs 2 pounds to the square foot, the 1/2 inch weighs 4 pounds to the square foot. Always state thickness wanted. Size, 1/4 inch thick.

Per square foot.....35c

Size, 1/2 inch thick.

Per square foot.....70c

Lead Pipe

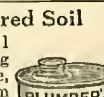


81T6734—Standard light grade. Prices subject to market changes.

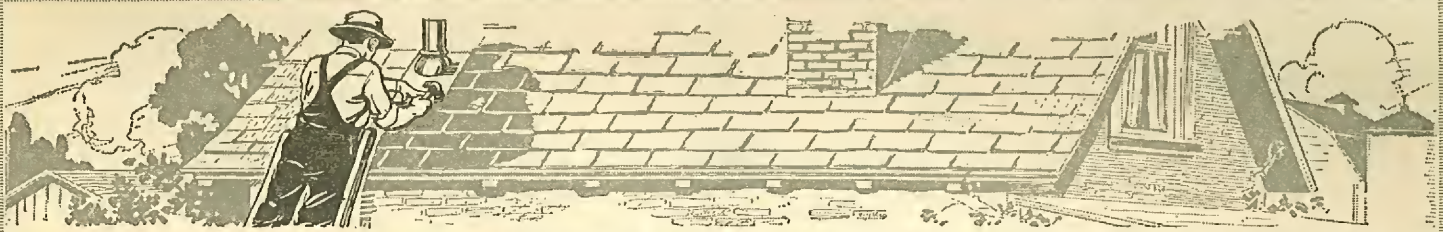
Size, Inside Diameter	Weight Per Foot	Price Per Foot
1/2 inch	1 pound	15c
3/4 inch	2 pounds	30c
1 inch	2 1/2 pounds	38c
1 1/4 inches	3 pounds	45c
1 1/2 inches	4 pounds	60c
2 inches	5 pounds	75c
4 inches	8 pounds	\$1.15

Note—Prices on other sizes or weights of lead pipe quoted on request.

Plumbers' Prepared Soil



81T642—A special preparation for coating brass nipples, lead pipe, etc. Prevents solder from sticking wherever soil is applied. In 1 pint cans. Shipping weight, 1 1/4 pounds. Each.....21c



Soil Pipe and Fittings That Are of the Best Quality



Quarter Bend

181T6764—Standard.
Size, 2-in. Ship. wt.,
3½ lbs. Each.....28c
Size, 4-in. Ship. wt.,
7 lbs. Each.....51c

181T6765—Extra Heavy.
Size, 2-in. Ship. wt., 5½ lbs.
Each.....38c
Size, 4-in. Ship. wt., 12½ lbs.
Each.....62c



Quarter Bend, (Made with Heel Outlet)

Size, 4-inch with
2-inch heel outlet.
181T6766—Standard.
Ship. wt., 12½ lbs. Each.....85c
181T6767—Extra Heavy.
Ship. wt., 18 lbs. Each.....\$1.05



Sixth Bend

181T6768—Standard.
Size, 2-inch. Weight,
8 pounds. Each.....28c
Size, 4-inch. Weight,
7½ pounds. Each.....42c

181T6769—Extra Heavy.
2-in. Wt., 4½ lbs. Each.....32c
4-in. Wt., 11½ lbs. Each.....54c



Eighth Bend

181T6770—Standard.
Size, 2-in. Ship. wt.,
3 lbs. Each.....26c
Size, 4-in. Ship. wt.,
8½ lbs. Each.....44c
181T6771—Extra Heavy.
Size, 2-inch. Ship. wt., 4½ lbs.
Each.....37c
Size, 4-inch. Ship. wt., 10½ lbs.
Each.....52c



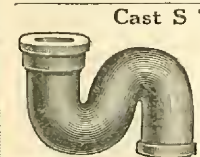
Quarter Bend with Side Outlet

State whether right
or left hand is wanted.
Right hand is shown.
Size, 4-inch, with
2-inch side outlet.
181T6772—Standard.
Ship. wt., 7 lbs. Each.....83c
181T6773—Extra Heavy.
Ship. wt., 12 lbs. Each.....\$1.12



Soil Pipe Rests

81T6780—Standard.
2-in. Ship. wt., 2 lbs. Each.....21c
4-in. Ship. wt., 4 lbs. Each.....26c
81T6781—Extra Heavy.
2-in. Ship. wt., 4 lbs. Each.....28c
4-in. Ship. wt., 8 lbs. Each.....33c



Cast S Trap

181T6806—Standard.
Size, 2-inch.
Weight, 6½
pounds. Each.....60c
Size, 4-inch.
Wt., 18½ lbs.
Each.....\$1.03
181T6807—Extra Heavy.
Size, 2-inch. Ship. wt., 8 lbs.
Each.....73c
Size, 4-inch. Ship. wt., 27 lbs.
Each.....\$1.28



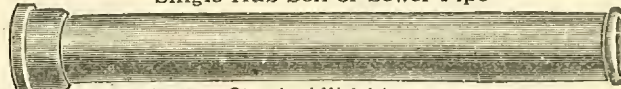
Half S Trap

181T6810—Standard.
Size, 4-inch. Ship-
ping weight, 20 lbs.
Each.....\$1.03
181T6811—Extra Heavy.
Size, 4-inch. Ship. wt., 25 lbs.
Each.....\$1.28

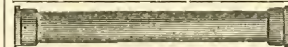
NOTE—The Standard will not fill the Extra Heavy. Use one kind exclusively.

All soil pipe and fittings shown on this page are of the best quality, tough cast iron, free from flaws. Heavily coated, both inside and out, with coal tar. Dimensions given are inside diameter. Prices subject to market changes. It is usually best to order three-fourths of the soil pipe for a given job in single hub style and one-fourth in double hub style. When double hub pipe is cut you can still use both pieces, while when single hub pipe is cut, the hubless piece is usually wasted. Soil pipe comes in 5 foot lengths.

Single Hub Soil or Sewer Pipe



181T6760—Standard Weight.
Size, 2 in. Ship. wt., 17½ lbs. Length.....\$0.83
Size, 4 in. Ship. wt., 36 lbs. Length.....1.49
181T6761—Extra Heavy Weight.
Size, 2 in. Ship. wt., 27½ lbs. Length.....\$1.18
Size, 4 in. Ship. wt., 65 lbs. Length.....2.50



Double Hub Soil Pipe

181T6762—Standard Weight.
Size, 2 in. Ship. wt., 17½ lbs. Length.....\$0.88
Size, 4 in. Ship. wt., 34 lbs. Length.....1.53
181T6763—Extra Heavy Weight.
Size, 2 in. Ship. wt., 27½ lbs. Length.....\$1.49
Size, 4 in. Ship. wt., 65 lbs. Length.....2.60

Long Increases

Used at top of soil pipe stack, where pipe goes through roof.
181T6852—Standard. Increases from 2-in to 4-in. Length, 24
inches. Shipping weight, 13 pounds. Each.....76c
181T6853—Extra Heavy. Ship. wt., 22 pounds. Each.....92c
181T6854—Standard. Increases from 4-inch to 5-inch. Length,
30 inches. Shipping weight, 33 pounds. Each.....\$1.12
181T6855—Extra Heavy. Ship. wt., 40 lbs. Each.....1.29

With Side Inlet

Side inlet is tapped for 1½-inch iron pipe thread.
181T6856—Standard. Increases from 2-inch to 4-inch. Length,
42 inches. Shipping weight, 13 pounds. Each.....\$0.98
181T6857—Extra Heavy. Ship. wt., 22 lbs. Each.....\$1.17
181T6858—Standard. Increases from 4-in. to 5-in. Length, 24
inches. Shipping weight, 33 pounds. Each.....\$1.49
181T6859—Extra Heavy. Ship. wt., 40 lbs. Each.....\$1.62

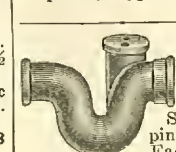
Adjustable Roof Flange

For making water-tight joint at point where soil
pipe goes through roof. Can be adjusted to any
angle of roof. Has lead collar at top for caulking.
81T6888—Galvanized Steel. (Give Size.)
For soil pipe, size, inches... 2 4 5
Shipping weight, pounds... 2 4 5
Each.....\$0.90 \$1.00 \$1.44
81T6889—All Copper. (Give size.)
For soil pipe, size, inches... 2 4 5
Shipping weight, pounds... 2 4 5
Each.....\$1.96 \$2.34 \$3.10



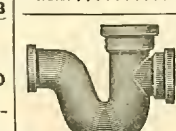
Half S Trap With Vent

Size, 4-inch, with 2-
inch vent.
181T6814—Standard.
Ship. wt., 17½ lbs. Each.....\$1.52
181T6815—Extra Heavy.
Ship. wt., 25½ lbs. Each.....\$1.85



Running Trap With Hand Hole

181T6820—Standard.
Size, 4-inch. Ship-
ping weight, 15 lbs.
Each.....\$1.65
181T6821—Extra Heavy.
Size, 4-in. Ship. wt., 37 lbs.
Each.....\$2.05



Running Trap With Vent

Size, 4-inch with
4-inch vent.
181T6825—Standard.
Ship. wt., 15 lbs. Each.....\$1.66
181T6826—Extra Heavy.
Ship. wt., 28 pounds. Each.....\$2.04

Three Quar- ter S Trap With Cleanout

Size, 4-inch.
181T6827—Standard.
Ship. wt., 21 lbs. Each.....\$1.70
181T6828—Extra Heavy.
Ship. wt., 30 pounds. Each.....\$2.05

Sanitary T Branch

181T6774—Standard
Size, 2-in. Ship. Wt., Each
4-in. 11 61c
4-in. 14 70c
181T6775—Extra Heavy
Size, 2-in. Ship. Wt., Each
4-in. 16 69c
4-in. 19½ 1.00

Sanitary T Branch

Size, 4-inch. With
2-inch side inlet, right
or left hand. Left hand
is shown.
181T6778—Standard
Size, 4 x 4 inches.
Ship. wt., 18 pounds.
Each.....\$1.34
181T6779—Extra Heavy.
Ship. wt., 23 pounds. Each.....\$1.61

Tapped Sanitary T Branch

181T6798—Standard
Size, 2-in. Ship. Wt., Each
4-in. 11 61c
4-in. 14 70c

181T6799—Extra Heavy.

Size, 2-in. Ship. Wt., Each
4-in. 10 60c
4-in. 14 1.00



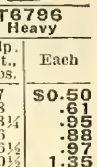
Soil Pipe Offset

Used for offsetting soil
pipe stack, for clearing
foundation, walls, etc.
Last dimension given is
distance from center to
center of the offset.



181T6794—Standard

Size, 2-in. Ship. Wt., Each
4-in. 10 60c
4-in. 14 1.00



Y Branch

181T6792—Standard
Size, 2-in. Ship. Wt., Each
4-in. 10 60c
4-in. 14 1.00



181T6793—Extra Heavy

Size, 2-in. Ship. Wt., Each
4-in. 10 60c
4-in. 14 1.00

Tapped Sanitary Cross

Side outlet, tapped for
iron pipe thread.

181T6790—Standard

Size, 2-in. Ship. Wt., Each
4-in. 10 60c
4-in. 14 1.00



181T6791—Extra Heavy

Size, 2-in. Ship. Wt., Each
4-in. 10 60c
4-in. 14 1.00

Sanitary Cross

181T6788—Standard
Size, 2-in. Ship. Wt., Each
4-in. 10 60c
4-in. 14 1.00



181T6789—Extra Heavy

Size, 2-in. Ship. Wt., Each
4-in. 10 60c
4-in. 14 1.00

Tapped T Branch

Side tapped for iron pipe thread.

181T6784—Standard

Size, 2-in. Ship. Wt., Each
4-in. 10 60c
4-in. 14 1.00



181T6785—Extra Heavy

Size, 2-in. Ship. Wt., Each
4-in. 10 60c
4-in. 14 1.00

Ventilating Cap

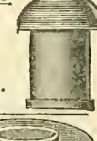
Size 4-in. Length, 6 in.

181T6830—Standard.

Ship. wt., 7 lbs. Each.60c

181T6831—Extra Heavy.

Ship. wt., 15 lbs. Each.76c



Roof Plate

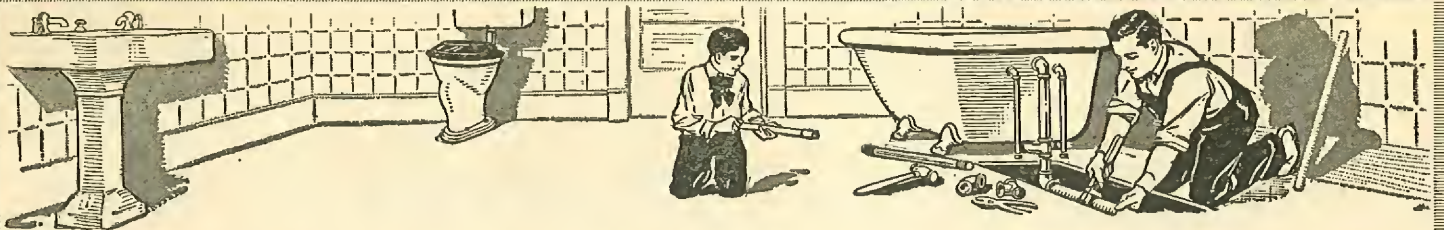
Used on flat roofs.

81T6832—Standard.

Size, 4-in. Ship. wt., 4½ lbs. Ea.50c

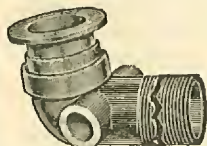
81T6833—Extra Heavy.

Size, 4-in. Ship. wt., 6½ lbs. Ea.60c



Soil Pipe Fittings with Hub

Note: The Standard will not fit the Extra Heavy. Use one kind exclusively.



**Adjustable
Iron Closet
Bend**

181T6890

Adjustable
neck inlet, fits
flush with

floor. The flange has bolt holes for bolting up tight to bowl. Bend is 15 inches long. Can be broken off to exact size required to fit any closet. Tapped on both sides for 1½-inch iron pipe thread. Shipping wt., 20 lbs. Standard weight. Each.....\$1.86



**Regular Iron
Closet Bend**

181T6906

Used to connect closet to soil pipe stack, tapped on each side for 1½-inch iron pipe. Lead and iron ferrule is calked into hub. Body of casting is grooved and can easily be broken off to size required to fit any closet rough-in measurement. Size, 4x18 inches. Extra heavy. Ship. wt., 30 lbs.\$1.60



Double Hub

81T6800—Standard
Size, 2-inch. Weight, 3 pounds. Each.....28c

Size, 4-inch. Shipping weight, 4½ pounds. Each.....42c

81T6801—Extra Heavy
Size, 2-inch. Weight, 4½ lbs. Each.....32c

Size, 4-inch. Shipping weight, 8 pounds. Each.....55c



Cast Reducer

Reduces from 4 inches to 2 inches

81T6802—Standard
Shipping weight, 3½ lbs. Each.....28c

81T6803—Extra Heavy
Shipping weight, 4 pounds. Each.....32c



**Ventilating
Branch**

With side outlet, for calked joint connection. Used for connecting vent pipe to soil pipe stack. Outlets, 4 and 2 in.

181T6804

Standard

Shipping weight, 12½ pounds.

Each.....98c

181T6805—Extra Heavy
Shipping weight, 16½ pounds. Each.....\$1.27



**S Trap with
Vent**

One size only. Size, 4-inch with 2-inch vent.

181T6808

Standard

Ship. wt., 24 lbs. Each.....\$1.65

181T6809—Extra Heavy
Shipping weight, 32 pounds. Each.....\$1.97



**Three-Quarter
S Trap with
Vent**

Size, 4-inch with 2-inch vent.

181T6812

Standard

Shipping weight, 20 pounds. Each.....\$1.61

181T6813—Extra Heavy
Ship. Wt., 29 lbs. Each.....\$1.94

**Cast Iron
S Trap
With Cleanout**

Size, 4-inch.

181T6816

Standard

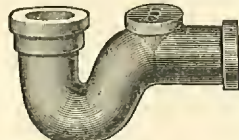
Shipping weight, 21 pounds. Each.....\$1.70

181T6817—Extra Heavy
Shipping weight, 30 pounds. Each.....\$2.14



**Half S
Trap**

With
Clean-
out



Size, 4-inch

181T6818—Standard

Weight, 20 pounds. Each.....\$1.73

181T6819—Extra Heavy
Shipping weight, 29 pounds. Each.....\$2.17

Cleanout Y

With Brass Screw Cover.

181T6823

Standard

Size Ship. Weight Each

2 inches 10 lbs. \$0.93

4 inches 13 lbs. 1.63

181T6824

Extra Heavy

Size Ship. Wt. By Freight Each

2 inches 7 23 pounds \$1.36

4 inches 25 pounds 2.09

Tapped Cross

Side outlets are tapped for Standard iron pipe thread, 1½ or 2 inches.

181T6835—Standard

Size Shipping Weight Each

2x1½ in. 5 lbs. 75c

4x1½ in. 9 lbs. 95c

4x2 in. 9 lbs. 95c

181T6836—Extra Heavy

Size Shipping Weight Each

2x1½ inches 10 pounds \$0.95

4x1½ inches 12 pounds 1.16

4x2 inches 12 pounds 1.16

Cleanout Plugs

81T6841—Cast iron
clean-out plugs made with brass screw cover that will not rust shut. Furnished in Standard weight only.

Size, 2-inch. Shipping weight, 1½ pounds. Each.....33c

Size, 4-inch. Shipping weight, 2½ pounds. Each.....49c

Tapped Increaser

The small opening of these increasers is tapped for iron pipe thread.

181T6848 Standard

Size, 4x1½ inches. Shipping weight, 7 lbs. Each.....69c

Size, 4 x 2 inches. Shipping weight, 7 lbs. Each.....69c

181T6849—Extra Heavy

Size, 4x1½ inches. Shipping weight, 9 pounds. Each.....\$1.23

Size, 4x2 inches. Shipping weight 9 pounds. Each.....\$1.23

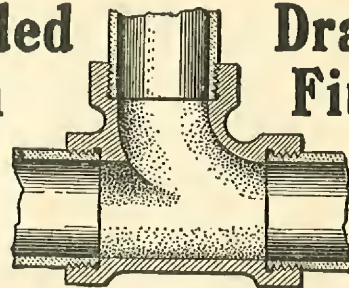
**Threaded
Iron**

**Drainage
Fittings**

The Advantages of this Style Fittings

Threads in our drainage fittings are recessed as illustrated above. This means that the threads are cut in such a way that when the pipe is screwed into the fittings, there will be a smooth, clear passage of uniform diameter. There are no rough exposed edges to catch deposit and cause stoppage as in the old style fittings. These recessed drainage fittings make practical the use of iron pipe for waste drainage from sinks, lavatories or bath tubs in a plumbing system. The old lead pipe installation with its soldering and troublesome joint-wiping is done away with. Any man who can cut and thread pipe can install this type of plumbing system. We use these fittings in our outfits.

Threaded Iron Drainage Fittings



**45-Degree
Drainage
Elbow**

Size, inches.....	1½	1½	2
Shipping weight, pounds.....	1½	2½	3½
83T5650—Black.....	20c	26c	38c
83T5651—Galvanized.....	35c	45c	68c



**90-Degree
Drainage
Elbow**

Size, inches.....	1½	1½	2
Shipping weight, pounds.....	2	2½	3½
83T5652—Black.....	20c	26c	39c
83T5653—Galvanized.....	35c	45c	68c



**Long Sweep
90-Degree
Drainage
Elbow**

Size, inches.....	1½	1½	2
Shipping weight, pounds.....	3½	4½	6
83T5654—Black.....	28c	42c	69c
83T5655—Galvanized.....	49c	69c	69c



**Long Sweep
45-Degree
Drainage
Elbow**

Size, inches.....	1½	1½	2
Shipping weight, pounds.....	2½	3½	4½
83T5656—Black.....	28c	42c	69c
83T5657—Galvanized.....	49c	69c	69c



**Drainage Tee
Branch**

Size, inches.....	1½	1½	2
Shipping weight, lbs.....	3½	5	7½
83T5658—Black.....	31c	39c	\$0.57
83T5659—Galv.....	54c	68c	1.01



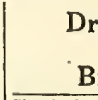
**Drainage
Reducing Tee
Branch**

Size, inches.....	1½	1½	2
Shipping weight, pounds.....	5	7½	10
835660—Black.....	43c	\$0.64	1.09
835661—Galvanized.....	74c	1.09	1.09



**Drainage
Tee Cross**

Size, inches.....	1½	1½	2
Shipping weight, pounds.....	6	7½	10
83T5670—Black.....	\$0.64	\$1.01	1.65
83T5671—Galv.....	1.12	1.65	1.65



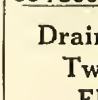
**Drainage
Y
Branch**

Size, inches.....	1½	1½	2
Shipping weight, lbs.....	3½	5	7½
83T5662—Black.....	35c	44c	\$0.64
83T5663—Galvanized.....	61c	78c	1.12



**Drainage
Reducing Y
Branch**

Size, inches.....	1½	1½	2
Shipping weight, lbs.....	4	5	7½
83T5664—Black.....	49c	\$0.70	1.24
83T5665—Galv.....	84c	1.24	1.24



**Drainage
Twin
Ell**

Size, inches.....	1½	1½	2
Shipping weight, lbs.....	5	6	8
83T5666—Black.....	51c	\$0.57	\$0.74
83T5667—Galv.....	85c	1.01	1.39



**Drainage
Reducing
Twin Ell**

Size, inches.....	2x1½
Shipping weight, pounds.....	6
83T5668—Black.....	\$0.74
83T5669—Galvanized.....	1.30



**Drainage
Cross**

Size, inches.....	1½	1½	2
Shipping weight, lbs.....	4½	6	7½
83T5670—Black.....	47c	\$0.57	\$0.88
83T5671—Galv.....	87c	1.01	1.55



**Drainage
Reducing
Cross**

Size, inches.....	1½	1½	2
Shipping weight, pounds.....	6	7½	10
83T5672—Black.....	\$0.64	\$1.01	1.65
83T5673—Galv.....	1.12	1.65	1.65



**Drainage
Tee Cross**

Size, inches.....	1½	1½	2
Shipping weight, pounds.....	6	7½	10
83T5674—Black.....	\$0.64	\$1.01	1.65
83T5675—Galv.....	1.12	1.65	1.65



Cast Iron and Malleable Fittings that the Best Plumbers Use



Flange Unions
Cast Iron

Size Inches	Ship. Wt. Lbs.	83 T4908 Black	83 T4909 Galvanized
1 1/4	2 1/2	\$0.35	\$0.70
1 1/2	3	.41	.82
1 3/4	3 1/2	.50	1.00
2	4 1/4	.61	1.22
2 1/2	5 1/2	.78	1.56
3	7 1/2	1.02	2.04
3 1/2	9 1/2	1.17	2.34
4	10	1.64	3.38



Return Bends
Cast Iron

Black 83 T4910—Closed Pattern.

Size Inches	Shipping Weight Pounds	Price
1 1/4	1 1/2	\$0.11
1 1/2	1 3/4	.12
1 3/4	2	.13
2	2 1/2	.15
2 1/2	3	.17
3	3 1/2	.20
3 1/2	4	.23
4	5 1/2	.35
5	6 1/2	.55



Street Elbows
Malleable Iron

Size, In. large end	Ship. Weight Pounds	83 T5352 Black	83 T5353 Galvanized
1 1/4	1 1/2	4c	5c
1 1/2	1 3/4	5c	6c
1 3/4	2	7c	8c
2	2 1/2	9c	10c
2 1/2	3	12c	13c
3	3 1/2	18c	20c
3 1/2	4	24c	26c
4	5 1/2	41c	55c



Drop Fittings
Black—For Gas Malleable Iron

Drop Elbows and Tees for Gas.
83 T5354—Long Drop Ell, 3/4-inch only, with 2 1/2-inch drop.

Size Inches	Shipping Weight Pounds	Each
3/4	1/4	6c



83 T5355—Short Female Drop Ell.

Size Inches	Ship. Wt. Pounds	Each
3/4	1/8	5c
1	1/5	11c



83 T5356—Drop Tee.

Size Inches	Ship. Wt. Pounds	Each
3/4	1/4	6c



Return Bends
Cast Iron

Black 83 T5367—Open Pattern.

Size Inches	Shipping Weight Pounds	Each
1 1/4	1 1/2	\$0.16
1 1/2	1 3/4	.18
1 3/4	2	.25
2	2 1/2	.33
2 1/2	3	.43
3	3 1/2	.55
3 1/2	4	.68
4	5 1/2	1.39

Reducing Tees



Size given is pipe size at large end; the other two openings are reduced one size.

Malleable Iron

Size, In. large end	Ship. Weight Pounds	83 T5357 Black	83 T5358 Galvanized
1 1/4	1 1/2	4c	7c
1 1/2	1 3/4	7c	9c
1 3/4	2	9c	11c
2	2 1/2	10c	14c
2 1/2	3	12c	19c
3	3 1/2	20c	30c
3 1/2	4	25c	40c
4	5 1/2	40c	63c

Cast Iron

Size Inches	Ship. Wt. Lbs.	83 T4912 Black	83 T4913 Galvanized
1 1/4	1 1/2	\$0.11	\$0.22
1 1/2	1 3/4	.14	.28
1 3/4	2	.23	.46
2	2 1/2	.27	.54
2 1/2	3	.39	.78
3	3 1/2	.69	1.38
3 1/2	4	1.05	2.10
4	5 1/2	1.67	3.34



90 Degree Elbows
Malleable Iron

Size Inches	Ship. Wt. Lbs.	83 T5360 Black	83 T5361 Galvanized
1 1/4	1 1/4	4c	5c
1 1/2	1 1/2	5c	7c
1 3/4	1 3/4	6c	8c
2	2	7c	9c
2 1/2	2 1/2	10c	15c
3	3	15c	24c
3 1/2	3 1/2	20c	29c
4	4	30c	48c

Cast Iron

Size Inches	Ship. Wt. Lbs.	83 T4900 Black	83 T4901 Galvanized
1 1/4	1 1/4	\$0.07	\$0.14
1 1/2	1 1/2	.09	.18
1 3/4	1 3/4	.13	.26
2	2	.17	.34
2 1/2	2 1/2	.24	.48
3	3	.44	.88
3 1/2	3 1/2	.63	1.26
4	4	1.00	2.00



45 Degree Elbows
Malleable Iron

Size Inches	Ship. Wt. Lbs.	83 T5362 Black	83 T5363 Galvanized
1 1/4	1 1/4	4c	6c
1 1/2	1 1/2	5c	7c
1 3/4	1 3/4	6c	9c
2	2	8c	12c
2 1/2	2 1/2	12c	18c
3	3	19c	26c
3 1/2	3 1/2	24c	40c
4	4	45c	62c

Cast Iron

Size Inches	Ship. Wt. Lbs.	83 T4904 Black	83 T4905 Galvanized
1 1/4	1 1/4	\$0.09	\$0.18
1 1/2	1 1/2	.10	.20
1 3/4	1 3/4	.16	.32
2	2	.20	.40
2 1/2	2 1/2	.29	.58
3	3	.50	1.00
3 1/2	3 1/2	.75	1.50
4	4	1.24	2.48

Tees



Malleable Iron

Size Inches	Ship. Wt. Lbs.	83 T5364 Black	83 T5365 Galvanized
1 1/4	1 1/2	4c	6c
1 1/2	1 3/4	6c	8c
1 3/4	2	9c	11c
2	2 1/2	10c	14c
2 1/2	3	12c	19c
3	3 1/2	19c	32c
3 1/2	4	25c	41c
4	5 1/2	40c	64c

Cast Iron

Size Inches	Ship. Wt. Lbs.	83 T4906 Black	83 T4907 Galvanized
1 1/4	1 1/2	\$0.08	\$0.16
1 1/2	1 3/4	.11	.21
1 3/4	2	.17	.34
2	2 1/2	.24	.48
2 1/2	3	.29	.58
3	3 1/2	.50	1.00
3 1/2	4	.75	1.50
4	5 1/2	1.10	2.20

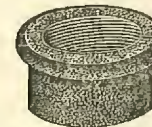
Reducing Couplings
Malleable

To reduce one size—Size given is the large end.



Size, In. large end	Shipping Weight Pounds	83 T5370 Black	83 T5371 Galvanized
1 1/4	1 1/2	4c	5c
1 1/2	1 3/4	4c	5c
1 3/4	2	6c	7c
2	2 1/2	6c	8c
2 1/2	3	9c	12c
3	3 1/2	10c	15c
3 1/2	4	13c	19c
4	5 1/2	20c	31c

Caps



Malleable

Size Inches	Ship. Wt. Lbs.	83 T5372 Black	83 T5373 Galvanized
1 1/4	1 1/2	4c	6c
1 1/2	1 3/4	6c	8c
1 3/4	2	8c	10c
2	2 1/2	10c	14c
2 1/2	3	18c	28c
3	3 1/2	29c	45c
3 1/2	4	41c	60c

Unions



Malleable Iron

Size Inches	Ship. Wt. Lbs.	83 T5374 Black	83 T5375 Galvanized
1 1/4	1 1/2	11c	16c
1 1/2	1 3/4	12c	18c
1 3/4	2	15c	20c
2	2 1/2	18c	25c
2 1/2	3	21c	30c
3	3 1/2	38c	54c
3 1/2	4	36c	54c
4	5 1/2	44c	73c

Couplings



Wrought Steel

Size Inches	Ship. Wt. Lbs.	83 T5378 Black	83 T5379 Galvanized
1 1/4	1 1/2	2c	3c
1 1/2	1 3/4	3c	4c
1 3/4	2	3c	4c
2	2 1/2	4c	5c
2 1/2	3	7c	10c
3	3 1/2	8c	13c
3 1/2	4	11c	15c

Lock Nuts



Malleable Iron

Size Inches	Ship. Wt. Lbs.	83 T5386 Black	83 T5387 Galvanized
1 1/4	1 1/2	2 1/2 c	4c
1 1/2	1 3/4	3c	4c
1 3/4	2	3c	6c
2	2 1/2	6c	8c
2 1/2	3	8c	10c
3	3 1/2	10c	14c

Short Nipples

Length, 3/4 to 2 1/2 inches



Size Inches	Ship. Wt. Lbs.	83 T5380 Black	83 T5381 Galvanized
1 1/4	1 1/2	2c	3c
1 1/2	1 3/4	3c	4c
1 3/4	2	4c	4c
2	2 1/2	5c	6c
2 1/2	3	8c	9c
3	3 1/2	9c	11c

NOTE—In ordering nipples give size of pipe; also length of nipple.

Long Nipples
Assorted



Between 3 and 6 inches

Size Inches	Ship. Wt. Lbs.	83 T5382 Black	83 T5383 Galvanized
1 1/4	1 1/2	3c	5c
1 1/2	1 3/4	4c	6c
1 3/4	2	4c	6c
2	2 1/2	4c	7c
2 1/2	3	5c	8c
3	3 1/2	7c	12c
3 1/2	4	9c	17c

Plugs



Cast Iron

Size Inches	Ship. Wt. Lbs.	83 T5388 Black	83 T5389 Galvanized
1 1/4	1/40	2c	2c
1 1/2	1/24	2c	2c
1 3/4	1/12	3c	3c
2	1/10	3c	4c
2 1/2	3/8	4c	5c
3	1/2	4c	7c
3 1/2	3/4	5c	8c
4	1	6c	12c
4 1/2	1 1/8	12c	25c

Bushings



Malleable

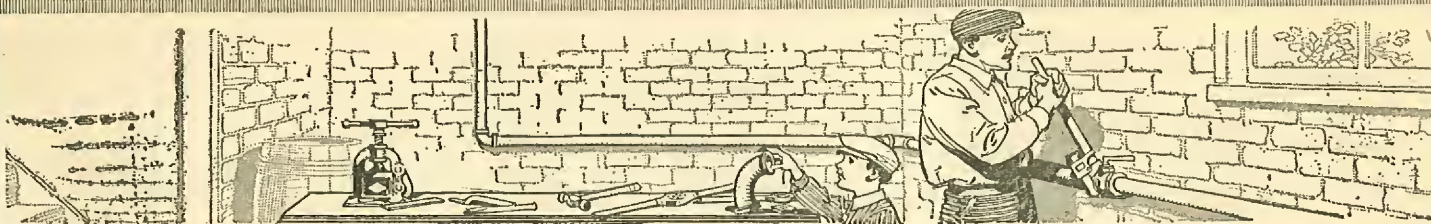
Size Inches	Ship. Wt. Lbs.	83 T5390 Black	83 T5391 Galvanized
1 1/4	1/48	2c	3c
1 1/2	1/32	3c	4c
1 3/4	1/24	3c	4c
2	1/16	3c	5c
2 1/2	1/8	4c	5c
3	3/16	4c	6c
3 1/2	1/4	7c	12c
4	1/2	9c	24c

Nickel Floor Plates



81 T7907—Nickel plated steel, snap lock.

Size Inches	Shipping Weight Ounces	Each
1 1/4	3	8 1/2 c
1 1/2	4	9c
1 3/4	5	10c
2	6	12c
2 1/2	7	15c



You'll Find These Faucets and Valves on the Best of Systems



Compression Plain Bibbs

81 T5443— Threaded for iron pipe. With hexagonal shoulder. Polished brass.

Size Inches	Shipping Weight Pounds	Each
$\frac{1}{2}$	$1\frac{3}{4}$	64c
$\frac{3}{4}$	1	78c



Compression Bibbs with Flange

Polished Brass or Nickel-Plated. Fitted for iron pipe connection.

Shipping Weight Pounds	81 T5444 Brass Each	81 T5445 Nickel-Plated Each
$\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{3}{4}$
$\frac{3}{4}$	1	1
	\$0.76	\$0.89
	1.06	1.08



Compression Hose Bibbs

81 T5442— Polished Brass. Fitted for iron pipe connection, with hexagonal shoulder.

Size Inches	Shipping Weight Pounds	Each
$\frac{1}{2}$	$1\frac{3}{4}$	72c
$\frac{3}{4}$	1	89c



Compression Hose Bibbs with Flange

Polished Brass or Nickel-Plated. Fitted for iron pipe connection.

Shipping Weight Pounds	81 T5456 Brass Each	81 T5457 Nickel-Plated Each
$\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{3}{4}$
$\frac{3}{4}$	1	1
	\$0.87	\$0.98
	1.05	1.19



Fuller Plain Bibbs

81 T5446— Polished Brass. With hexagonal shoulder, for iron pipe connection.

Size Inches	Shipping Weight Pounds	Each
$\frac{1}{2}$	$1\frac{3}{4}$	74c
$\frac{3}{4}$	1	88c



Fuller Hose Bibbs

81 T5447— Polished Brass. With hexagonal shoulder. For iron pipe connection.

Size Inches	Shipping Weight Pounds	Each
$\frac{1}{2}$	$1\frac{3}{4}$	86c
$\frac{3}{4}$	1	99c



Lever Handle Brass Stop Cocks

83 T5423— Solid Brass. Rough Finish. With ground key for iron pipe connection.

Size Inches	Shipping Weight Pounds	Each
$\frac{1}{2}$	$1\frac{3}{4}$	\$0.62
$\frac{3}{4}$	1	1.03

How to Order Valves and Faucets

Our engineers select the proper valves and faucets for complete plumbing systems. This reminder is for those who are ordering individual items.

When water pressures are high (40 pounds or over) the compression type of faucet is best. It is recommended for use with our air pressure water supply system and also for high pressure town water supply. The compression faucet cannot be closed suddenly. This prevents water pounding on the fixtures when the faucet is shut off.

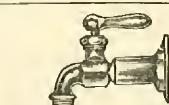
For lower pressure the Fuller faucet is the handiest and should always be used. For high water pressures use $\frac{1}{2}$ -inch faucets. For lower pressures use $\frac{3}{4}$ -inch size. Where the water rate is very high, or where water is hard to get we suggest using our Doherty Self-Closing Faucet, which prevents waste of water. Compression disc valves should be used for all steam work.



Plain Doherty Bibbs, Self-Closing

Polished Brass or Nickel-Plated. With hexagonal shoulder, for iron pipe connection. For use where water rate is high.

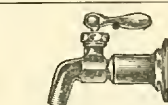
Size Inches	Shipping Weight Pounds	81 T5452 Brass Each	81 T5453 Nickel-Plated Each
$\frac{1}{2}$	$1\frac{3}{4}$	\$1.55	\$1.85
$\frac{3}{4}$	1	1.85	2.10



Fuller Hose Bibbs with Flange

Polished Brass or Nickel-Plated. For hose connection. Fitted for iron pipe thread.

Size Inches	Shipping Weight Pounds	81 T5458 Brass Each	81 T5459 Nickel-Plated Each
$\frac{1}{2}$	$1\frac{3}{4}$	\$0.93	\$1.07
$\frac{3}{4}$	1	1.08	1.20



Fuller Plain Bibbs with Flange

Polished Brass or Nickel-Plated. Fitted for iron pipe connection.

Size Inches	Shipping Weight Pounds	81 T5448 Brass Each	81 T5449 Nickel-Plated Each
$\frac{1}{2}$	$1\frac{3}{4}$	\$0.90	\$1.10
$\frac{3}{4}$	1	1.10	1.20

Compression Laundry Tub Bibbs



Stub Pattern with Flange. For $\frac{1}{2}$ -inch iron pipe. Recommended where water pressure is high. Ship wt. 1 pound.

81 T6700— Brass finish. Each..... 50c
81 T6701— Nickel-Plated Finish. Each..... 60c



Compression Sill Cocks

83 T5425— Heavy Plated, White Nickel Finish. Solid brass wheel handle. For $\frac{1}{2}$ -inch iron pipe connection. With stuffing box. Takes Standard garden hose. Shipping weight, 12 ounces. Each..... 79c



Hydrant Clamp

83 T5424— Tapped for $\frac{3}{4}$ -inch pipe. Malleable iron. Give size of stop cock that clamp is to fit. Shipping weight, 3 ounces. Each..... 7c

Brass Vertical Check Valves



83 T5413— Solid Brass. For use only in vertical pipes, where the direction of flow of water or liquid is upwards.

Size, inches..... $\frac{3}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ $1\frac{1}{2}$
Each..... 59c 76c 98c \$1.36

Standard Brass Gate Valves



83 T5406— These valves should always be used in water lines, or in places where opening full size of pipe is required.

Size Inches	Shipping Weight Pounds	Each
$\frac{1}{2}$	$1\frac{1}{2}$	\$1.24
$\frac{3}{4}$	$1\frac{1}{2}$	1.47
1	2	2.05
$1\frac{1}{4}$	$3\frac{1}{2}$	2.72
$1\frac{1}{2}$	4	3.65
2	$6\frac{1}{2}$	6.33

Fuller Laundry Tub Faucets

Side lever pattern, with flange for use where water pressure does not exceed 40 pounds. Fitted for iron pipe thread. In brass or nickel-plated.

Size Inches	Shipping Weight Pounds	81 T6702 Brass	81 T6712 Nickel
$\frac{1}{2}$	$1\frac{3}{4}$	\$1.25	\$1.35
$\frac{3}{4}$	1	1.45	1.65

Compression Sill Cocks with Loose Key

Solid Brass, with Flange. For $\frac{1}{2}$ -inch iron pipe. Fitted for Standard garden hose connection. Shipping weight, 1 pound.
83 T5426— Polished brass finish. Each..... 98c
83 T5427— Nickel-plated finish. Each..... 95c

Brass Horizontal Swing Check Valves

83 T5410— Solid Brass. A quick-acting, sure-closing valve. Offers very little resistance to flowing water.

Size In.	Ship. Wt. Lbs.	Each	Size In.	Ship. Wt. Lbs.	Each
$\frac{1}{2}$	$\frac{1}{2}$	\$0.82	$1\frac{1}{2}$	2	\$1.67
$\frac{3}{4}$	$\frac{1}{2}$	.90	$1\frac{1}{2}$	$2\frac{1}{2}$	2.20
1	$1\frac{1}{2}$	1.04	2	3	3.06
$1\frac{1}{2}$	$1\frac{1}{2}$	1.26			

Brass Horizontal Check Valves

83 T5407— Solid Brass. Standard pattern. With vertically rising disc, ground seat.

Size In.	Ship. Wt. Lbs.	Each	Size In.	Ship. Wt. Lbs.	Each
$\frac{1}{2}$	$\frac{1}{2}$	\$0.53	$1\frac{1}{2}$	$2\frac{1}{2}$	\$1.36
$\frac{3}{4}$	$\frac{1}{2}$	.54	$1\frac{1}{2}$	$2\frac{1}{2}$	1.90
$\frac{3}{4}$	$\frac{1}{2}$	.59	2	3	2.65
$\frac{3}{4}$	$\frac{1}{2}$	.76	2	$4\frac{1}{2}$	3.98
1	$1\frac{1}{2}$	.98			

Iron Body Gate Valves

83 T5407— Brass mounted, with flanged disc as shown. Easily taken apart without removing. Suitable for pressures up to 125 pounds.

Size Inches	Shipping Weight Pounds	Each
2	23	\$ 9.00
$2\frac{1}{2}$	27	10.25
3	36	13.25
4	40	14.80

Iron Body Globe Valves

83 T5414— Brass mounted, with rising stem. A good substantial valve for steam pressures up to 125 pounds.

Size Inches	Ship. Wt. Pounds	Each By Frt.
$2\frac{1}{2}$	17	\$6.00
3	25	8.00



Air Line Globe Valves

83 T5404— With special composition disc, closing tightly against air pressure. Suitable for pressures up to 125 pounds.

Size Inches	Ship. Wt. Pounds	Each
$\frac{1}{2}$	$\frac{3}{4}$	\$0.75
$\frac{3}{4}$	$1\frac{1}{2}$	.83
$\frac{3}{4}$	$1\frac{1}{2}$	1.10
$\frac{3}{4}$	$2\frac{1}{2}$	1.52



Standard Brass Globe Valves

83 T5400

Size Inches	Ship. Wt. Pounds	Each
$\frac{1}{2}$	$\frac{3}{4}$	\$0.55
$\frac{3}{4}$	$\frac{3}{4}$	.56
$\frac{3}{4}$	$\frac{3}{4}$	.59
$\frac{3}{4}$	$\frac{3}{4}$	.77
1	1	1.39
$1\frac{1}{4}$	3	2.00
$1\frac{1}{2}$	$4\frac{1}{2}$	2.69
2	$7\frac{1}{2}$	4.08



Brass Globe Valves with Jenkins Composition Disc

83 T5401— Solid Brass body. For steam pressure up to 125 pounds.

Size Inches	Ship. Wt. Pounds	Each
$\frac{1}{2}$	$\frac{3}{4}$	\$0.69
$\frac{3}{4}$	$\frac{3}{4}$	.75
$\frac{3}{4}$	$\frac{3}{4}$	1.00
$\frac{3}{4}$	$\frac{3}{4}$	1.38
1	2	1.76
$1\frac{1}{4}$	$4\frac{1}{2}$	3.46
$1\frac{1}{2}$	6	5.54



Air Line Angle Valve

83 T5405— With special composition disc, closing tight against air pressure. Suitable for pressures up to 125 pounds.

Size Inches	Ship. Wt. Pounds	Each
$\frac{1}{2}$	$\frac{3}{4}$	\$0.75
$\frac{3}{4}$	$\frac{3}{4}$	.83
$\frac{3}{4}$	$\frac{3}{4}$	1.10
$\frac{3}{4}$	$\frac{3}{4}$	1.52



Standard Brass Angle Valve

83 T5402

Size Inches	Ship. Wt. Pounds	Each
$\frac{1}{2}$	$\frac{3}{4}$	\$0.55
$\frac{3}{4}$	$\frac{3}{4}$	.56
$\frac{3}{4}$	$\frac{3}{4}$	.59
$\frac{3}{4}$	$\frac{3}{4}$	.77
1	$1\frac{1}{2}$	1.00
$1\frac{1}{4}$	3	1.39
$1\frac{1}{2}$	$4\frac{1}{2}$	2.00
2	$6\frac{1}{2}$	4.08

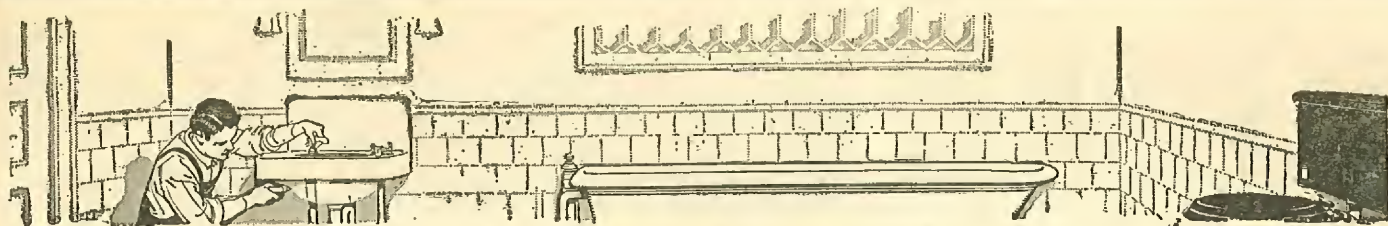


Brass Angle Valves with Jenkins Disc

83 T5403— With Jenkins composition disc. For steam pressure up to 125 pounds.

Size Inches	Ship. Wt. Pounds	Each
$\frac{1}{2}$	$\frac{3}{4}$	\$0.69
$\frac{3}{4}$	$\frac{3}{4}$	.75
$\frac{3}{4}$	$\frac{3}{4}$	1.00
$\frac{3}{4}$	$\frac{3}{4}$	1.38
1	2	1.76
$1\frac{1}{4}$	3	2.00
$1\frac{1}{2}$	$4\frac{1}{2}$	3.46
2	6	5.54





Heavily Nickeled Fixtures of the Latest Design



Compression Basin Cock or Faucet

Semi-low pattern. Heavily nickel-plated on brass. White China-indexed top. Fitted both for lead and iron pipe connection. Shipping weight, 1½ pounds.

81T5460—Indexed Cold. Each.....\$1.00
81T5461—Indexed Hot. Each.....\$1.00

Fuller Basin Cock

Solid brass, heavily nickel-plated. Arranged for both lead and iron pipe connection. Shipping weight, 2 pounds.

81T5462—Left-hand Cock. Each.....\$1.28
81T5463—Right-hand Cock. Each.....\$1.28



Fuller Basin Cock

Made of brass, heavily nickel-plated. Semi-low pattern, with round head. White china handle. Fitted for both lead and iron pipe connection. Shipping weight, 1½ pounds.

81T5465—Right-hand. Indexed Cold. Each.....\$1.77
81T5466—Left-hand. Indexed Hot. Each.....\$1.77

Self-Closing Basin Cock

81T5467—Solid Brass, handsomely nickel-plated. A sure-closing faucet. Should always be used where water rate is high or water is pumped by hand. Fitted for both lead and iron pipe connection. Shipping weight, 1½ pounds. Each.....\$2.05



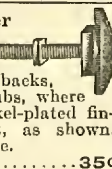
Rubber Fuller Balls

83T5450—Black for cold water.
83T5451—Red for hot water. Ship. wt., doz., 2 to 6 oz.

Pipe Sizes of Faucet	Cold Water Dozen	Hot Water Dozen
¾-inch.....	12c	20c
1-inch.....	15c	25c
1½-inch.....	18c	30c
2-inch.....	25c	50c

Cock Hole Cover

81T5455—Used to cover up hole in lavatories, kitchen sink backs, bath tubs and laundry tubs, where one faucet is used. Nickel-plated finish, with nut and bolt, as shown. Shipping weight, 1 ounce. Each.....35c



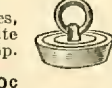
Brass Soldering Bushing

81T6904—Slips over end of lead pipe. Solder is applied to upper shoulder. Can be put on with an ordinary soldering iron.

Size.....	1½ inches	1½ inches
Shipping wt....	4 ounces	6 ounces
Each.....	18c	20c

Rubber Stopper

81T5464—Two sizes, 1½ and 1½ inches. White rubber. Nickel ring. Ship. wt., 2 ounces. Each.....10c



Fuller Double Bath Cock



81T5470—Solid brass, heavily nickel-plated. Fitted for ½-inch lead or iron pipe connection. Has nickel-plated jewel cap on top, for holding rings or soap. Spigot outlet for shower bath hose. Fitted for both lead and iron pipe connection. Shipping weight, 9 pounds. Each.....\$3.70

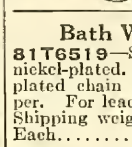
Quick-Presson Bath Cock

81T5474—Solid brass, heavily nickel-plated. China handles. Quick-closing with quarter turn of handles. Spigot for hose. For ¾ inch iron pipe connection. Ship. wt., 4½ lbs. Each.....\$2.85



Bath Strainer

81T6518—Nickel-plated brass for lead pipe connection. Shipping weight, 1½ pounds. Each.....80c



Bath Waste Plug

81T6519—Solid brass, nickel-plated. With nickel-plated chain and rubber stopper. For lead pipe connection. Shipping weight, 1 pound. Each.....75c



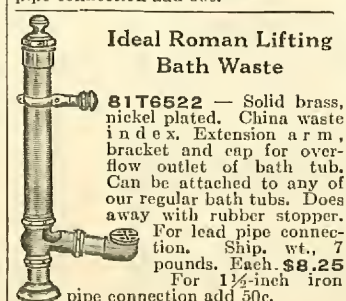
Combination Bath Waste and Overflow

81T6520—Built-up construction, with slip joint connections. Made of brass, nickel plated. With rubber stopper chain and floor flange. Will fit any standard bath tub. For lead pipe connection. Shipping wt., 3 pounds. Each.....\$3.00
 For 1½-inch iron pipe connection add 50c.



Combination Bath Trap Waste and Overflow

81T6523—Does away entirely with the necessity of having a trap in floor. Trap is cast brass at base and is fitted with removable plug for cleaning. Fixture is nickel-plated brass, with chain, rubber stopper and floor flange. For lead pipe connection. Shipping weight, 4 pounds. Each.....\$4.85
 For 1½-inch iron pipe connection add 50c.



Ideal Roman Lifting Bath Waste

81T6522—Solid brass, nickel plated. China waste index. Extension arm, bracket and cap for overflow outlet of bath tub. Can be attached to any of our regular bath tubs. Does away with rubber stopper. For lead pipe connection. Ship. wt., 7 pounds. Each.....\$8.25
 For 1½-inch iron pipe connection add 50c.

Bath Supply Pipes

81T6527—Made of solid brass, heavily nickel-plated. Will withstand any city water pressure. Threaded for ½-inch iron pipe connection. Complete with nickel-plated floor flanges. Ship. weight, 2lbs. Per pair...\$2.75



Rubber Extension Elbow

81T6528—Used as an extension to connect flush pipe of closet to bowl. Adjustable from 3¼ to 5¼ inches. Shipping weight, 12 ounces.

Size, In.	Each
1¼.....	\$0.29
1½.....	.51
2.....	.56

Basin Plug

81T6605—Used with our earthenware basins, listed on another page. Made of brass, nickel plated. For 1¼-inch lead pipe connection. With chain and rubber stopper, for patent overflow bowl. Shipping weight, 6 ounces. Each.....75c
 For 1¼-inch iron pipe connections add 50c.



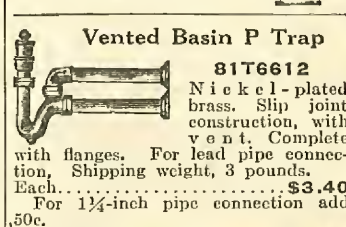
Long Basin S Trap

81T6611—Built-up construction. Slip joint connections. Size, 1¼ inches. Made of brass, nickel plated. Furnished complete with floor flange. For lead pipe connection. Ship. weight, 3 pounds. Each.....\$2.80
 For 1¼-inch iron pipe connection add 50c.



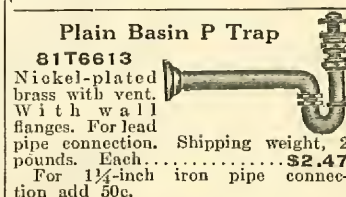
Vented Trap

81T6610—Fitted with vent to wall. Nickel-plated brass. With floor and wall flanges. Size, 1¼ inches. For lead pipe connection. Shipping weight, 4 pounds. Each.....\$3.70
 For 1½-inch iron pipe connection add 50c.



Vented Basin P Trap

81T6612—Nickel-plated brass. Slip joint construction, with vent. Complete with flanges. For lead pipe connection. Shipping weight, 3 pounds. Each.....\$3.40
 For 1½-inch pipe connection add 50c.



Plain Basin P Trap

81T6613—Nickel-plated brass with vent. With wall flanges. For lead pipe connection. Shipping weight, 2 pounds. Each.....\$2.47
 For 1½-inch iron pipe connection add 50c.

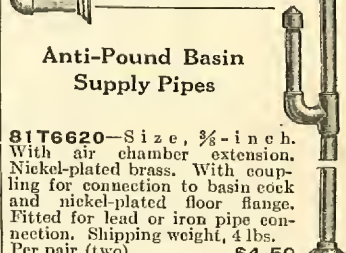
Anti-Pound Basin Supply Pipes

81T6617—Anti-pounding air chambers. Nickel-plated brass, with wall flanges and coupling for basin cock. Size, ¾-inch. Fitted for lead or iron pipe connection. Ship. wt., 4 lbs. Per pair (two)...\$4.50



Plain Basin Supply Pipes

81T6619—For wall connection. No air chamber. Nickel-plated brass, with wall flanges and coupling for basin cock. Size, ¾-inch. Fitted for lead or iron pipe connection. Shipping weight, 4 lbs. Per pair (two)...\$2.70



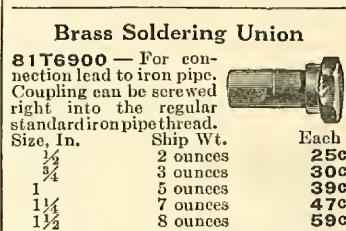
Anti-Pound Basin Supply Pipes

81T6620—Size, ¾-inch. With air chamber extension. Nickel-plated brass. With coupling for connection to basin cock and nickel-plated floor flange. Fitted for lead or iron pipe connection. Shipping weight, 4 lbs. Per pair (two)...\$4.50



Plain Basin Supply Pipes

81T6618—Made of brass, nickel plated. Size, ¾ inch. With nickel-plated floor flanges and coupling for connection to basin cock. Fitted for lead or iron pipe connection. Shipping weight, 4 pounds. Per pair (two)...\$2.70



Brass Soldering Union

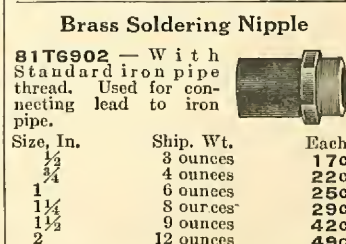
81T6900—For connection lead to iron pipe. Coupling can be screwed right into the regular standard iron pipe thread.

Size, In.	Ship Wt.	Each
¾	2 ounces	25c
1	3 ounces	30c
1½	5 ounces	39c
2	7 ounces	47c
2½	8 ounces	59c



Lavatory Waste Fitting

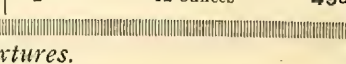
81T6622—China index top. Brass nickel plated. The lavatory must be made for an ideal waste fitting, or it cannot be used. Does away with the chain and rubber stopper. Furnished for lead pipe connection. Ship. wt., 3 lbs. Each.....\$4.65
 For 1½-inch iron pipe connection add 50c.

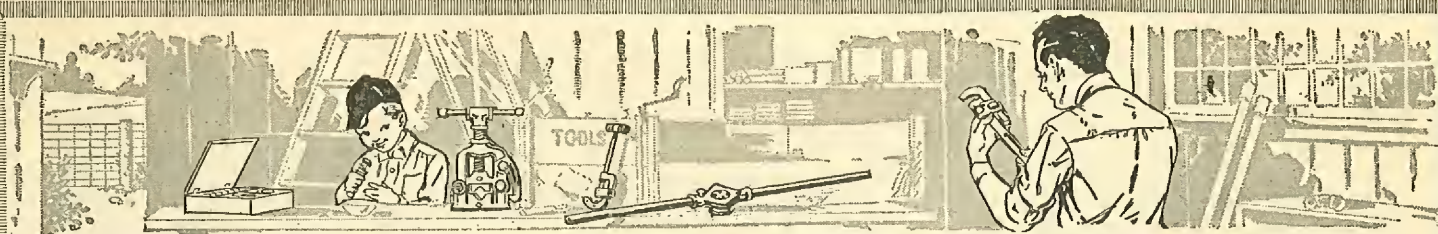


Brass Soldering Nipple

81T6902—With standard iron pipe thread. Used for connecting lead to iron pipe.

Size, In.	Ship. Wt.	Each
¾	3 ounces	17c
1	4 ounces	22c
1½	6 ounces	25c
2	8 ounces	29c
2½	9 ounces	42c
3	12 ounces	49c





High Quality Pipe and Supplies at Low Prices

Standard Wrought Pipe

The following prices are for pipe coupled and threaded in random lengths, ranging between 16 and 20 feet. When ordering pipe cut to exact lengths, always make allowance for cutting and threading. Couplings are included only with pipe in random lengths. Prices subject to market changes.

Pipe Size	Shipping weight per foot, pounds	183T5600 Black per foot	183T5602 Galvanized per foot	For cutting extra threads per cut
1/8 inch	3/4	3 1/2c	(1/8 inch not furnished)	2 1/2c
1/4 inch	1 1/4	3 3/4c	5 1/2c	3 1/2c
3/8 inch	1 3/4	4c	6 1/2c	4 1/2c
1/2 inch	2 1/4	5c	6 3/4c	5 1/2c
5/8 inch	2 3/4	5 1/2c	8c	6 1/2c
3/4 inch	3 1/4	6c	12c	7 1/2c
1 inch	4 1/4	9 1/2c	16 1/2c	8 1/2c
1 1/4 inches	5 1/4	12c	19 1/2c	9 1/2c
1 1/2 inches	6 1/4	15c	22c	10 1/2c
2 inches	8 1/4	20 1/2c	26c	11c
2 1/2 inches	10 1/4	24 1/2c	31c	11 1/2c
3 inches	12 1/4	32c	41c	12c
3 1/2 inches	14 1/4	41 1/2c	53c	13c
4 inches	16 1/4	57c	76c	14c
4 1/2 inches	18 1/4	65c	87c	

NOTE—If pipe is ordered cut to exact lengths with ends threaded, we make an extra charge. For instance, if you order 10 feet of 1 1/4-inch pipe cut and threaded there will be an extra charge of two cuts at 3c each.

Wrought Steel Well Casing

283T5604—Furnished Black with regular Standard coupling joints, in regular mill lengths averaging about 20 feet each. Each length is threaded at both ends with standard casing thread, 14 threads to the inch.

This steel casing is similar to standard wrought pipe, except that it is of lighter weight, and in many cases serves the purpose for which it is used just as well as the regular standard pipe. Ordinary pipe fittings will not fit this well casing.

Tested to 500 pounds. Prices are for casing furnished in random mill lengths, with threads and couplings. Prices subject to market changes.

Nominal Inside Diameter Inches	Nominal Outside Diameter Inches	Number of threads per inch of screw	Shipping weight, pounds per foot	283T5604 Price per foot at factory
4	4 1/4	14	6 1/4	35c
4 1/2	4 3/4	14	7 1/4	40c
5	5 1/4	14	8 1/4	48c
5 1/2	5 3/4	14	9 1/4	51c
6	6 1/4	14	10 1/4	58c
6 1/2	6 3/4	14	12	64c

Shipped direct from Factory in Ohio.

NOTE—If casing is ordered cut to exact special lengths with ends threaded, we will make an extra charge of 25c per thread.



Lever Handle Brass Stop and Waste Cocks

83T5421—Solid Brass Rough Finish. With ground key for iron pipe connection. Has waste outlet, so that water in pipe will drain off.

Size, inches	Shipping Weight, pounds	Each
1/2	1 1/4	\$0.61
3/4	1 1/2	1.07

T Handle Brass Stop and Waste Cocks

83T5420—Solid Brass Rough Finish. With ground key, fitted for iron pipe connection. Used to shut off water in underground pipes. Has waste outlet.

Size, inches	Shipping Weight, pounds	Each
1/2	1	\$0.60
3/4	1 1/4	1.05



Brass Hydrant Cocks



83T5422—Solid brass, rough finish. With waste, and combination elbow, ground key. T handle. Brass finish. Used in connection with shut-off rod, for underground pipes.

Size, inches	Shipping Weight, pounds	Each
3/4	1 3/4	\$1.45
1	2	2.00

T Handle Stop Cocks



83T5418—Solid Brass, Rough Finish. With ground key fitted for iron pipe connection. Straightway pattern.

Size, inches	Shipping Weight, pounds	Each
1/2	7/8	\$0.59
3/4	1 1/4	1.03

Brass Three Way Cocks

83T5417—Solid Brass, Square Head. Rough finish. With ground key, for iron pipe connection.

Size, inches	Shipping Weight, pounds	Each
1/2	1	\$1.68
3/4	1 1/2	2.03
1	3	2.56



Square Head Steam Cocks

83T5416—Solid Brass, rough finish. With Ground Key.

Size, inches	Shipping Weight, pounds	Each
1/2	3/4	\$0.57
3/4	1	.68
1	1 1/4	.85
1 1/2	1 1/2	1.15
2	1 1/2	1.60



Explanation of Pipe Sizes

Regarding Pipe

The size of a pipe fitting is determined by the pipe size of the wrought pipe which will fit into it. A glance at the illustration of the 1/2-inch elbow with a short piece of 1/2-inch pipe, shown herewith, will make this clear.

It has happened that customers would, without thinking, measure the size of the hole in a fitting, and if, for instance, they found it to be 3/4-inch, they would order 3/4-inch fitting, whereas it should have been a 1/2-inch fitting. The same applies to all other sizes. By looking at the table of outside diameters of pipe shown opposite, you will be able to determine the corresponding pipe size of pipe to fit into the hole of any fitting you may wish to match, which will be the pipe size of the fitting you should order.

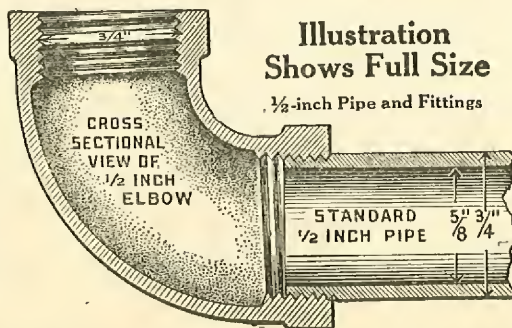


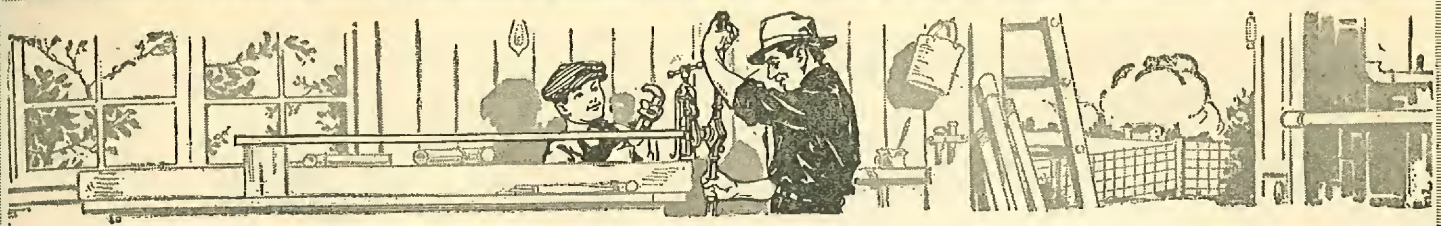
Illustration Shows Full Size

1/2-inch Pipe and Fittings

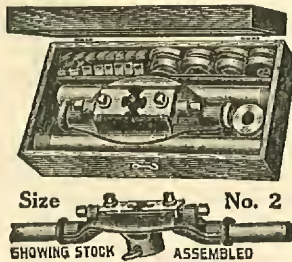
Regarding Fittings

The size of wrought steel or iron pipe is determined by its inside diameter (not outside). In most cases the pipe size will correspond very closely with the inside diameter of the pipe.

Pipe Size	Ins. diam. decimal in.	Outs. diam. decimal in.	Thickness wall dec. in.	Wgt. per 100 ft. pounds
1/8-inch	.27	.40	.07	24
1/4-inch	.36	.54	.08	42
3/8-inch	.49	.67	.09	54
1/2-inch	.62	.84	.10	84
5/8-inch	.82	1.05	.11	112
3/4-inch	1.04	1.31	.13	167
1-inch	1.38	1.66	.14	224
1 1/4-inches	1.61	1.90	.14	268
2-inches	2.06	2.37	.15	361
2 1/2-inches	2.46	2.87	.20	574
3-inches	3.06	3.50	.21	754
3 1/2-inches	3.56	4.00	.22	900
4-inches	4.02	4.50	.23	1066



Pipe Dies and Cutting Tools on Which You Can Rely



Size 8 No. 2
SHOWING STOCK ASSEMBLED

Armstrong Pattern Pipe Stock No. 2

83T5120—Set No. 2. Cutting 5 sizes of pipe $\frac{1}{4}$ to 1 inch, right hand. Length of stock with handles, 36 inches. Ship. wt., 15 pounds. Per set,\$5.50

Extra Pipe Dies

83T5121—For extra pipe dies, from $\frac{1}{4}$ to 1 inch each size (two pieces). Ship. wt., 12 ounces. Each,98c

Extra Bolt Dies

83T5122—Bolt dies for threading rods to fit No. 2 Stocks. Sizes, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100. Price, each size,\$1.30

83T5123—Extra guides, for bolt dies. Ship. wt., set of 2, 12 ounces. Each,18c

Armstrong Pattern Pipe Stocks No. 2 $\frac{1}{2}$



83T5124—4 dies, cutting $\frac{1}{4}$, $\frac{1}{2}$, 1 and $1\frac{1}{2}$ -inch pipe, right hand; cut shows style of stock only; always sent complete. Length of stock with handles, 38 inches. Ship. wt., per set, 18 $\frac{1}{4}$ pounds. Complete,\$6.80

83T5125—Extra pipe dies. Each size 2 pieces. Ship. wt., 1 $\frac{1}{2}$ pounds,\$2.10
Bolt dies not made for Number 2 $\frac{1}{2}$ stock.

Armstrong Pattern Pipe Stocks No. 3



83T5126—Three sizes pipe dies cutting $1\frac{1}{4}$, $1\frac{1}{2}$ and 2 inches. Length of stock with handles, 54 inches. Ship. wt., per set, 25 $\frac{1}{2}$ pounds. Complete,\$8.60

83T5127—Extra Pipe Dies. Ship. wt., 2 $\frac{1}{4}$ pounds. Per set of 2 pieces,\$2.60

No. 6 Pipe Stock

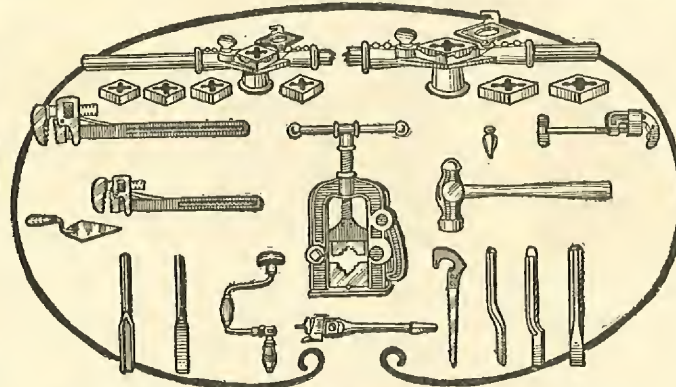
83T5128—For cutting pipe 2 $\frac{1}{2}$ and 3 inches, right hand. Each stock contains 1 pair of double end dies, and four handles. Length of stock with handles, 6 feet 5 inches. Ship. wt., per set, 72 pounds. Per set,\$22.75

83T5129—Extra Pipe Dies. Ship. wt., 6 $\frac{1}{2}$ pounds. Per set of 2 pieces,\$9.45

No. 7 Pipe Stock

83T5130—For threading pipe 2 $\frac{1}{2}$, 3, 3 $\frac{1}{2}$, 4 inches, right hand. Each stock contains four double end dies, and four handles. Length of stock with handles, 6 feet 4 inches. Ship. wt., per set, 110 pounds. Per set,\$34.20

83T5131—Extra Pipe Dies. Ship. wt., 9 pounds. Per set of 4 pieces,\$10.15



We Will Loan You These Plumbers' Tools

NOTE—When a complete plumbing system is purchased of us we will, upon request, loan with it a complete set of tools as described, except that they will have been used before. A temporary charge is made for these used tool sets. When tools are returned to us this amount is refunded to you. We do not pay transportation charges on loaned tools.

Tool Set for Use With Wardway Soil Pipe Joint Cement

One set No. 1 Stock and Dies, for threading pipe from $\frac{1}{4}$ to 1-inch size; one set No. 2 Stock and Dies for threading pipe from $1\frac{1}{4}$ -inch to 2-inch size; one Pipe Vise No. 2, large size, for holding up to 3 $\frac{1}{2}$ -inch pipe; one Compass Saw; one Plumb Bob; one Brace; one Extension Bit; one Small Trowel; one Hammer; one Steel Cold Chisel, for cutting soil pipe; one 18-inch Stillson Pipe Wrench; one 14-inch Stillson Pipe Wrench; one Three-Wheel Pipe Cutter, for cutting up to 2-inch pipe; one Yarning Chisel, for packing oakum in soil pipe joints; one Calking Chisel, for calking oakum in soil pipe joints; one Steel Plumbers' Wood Chisel, for chiseling out floors, etc., to run pipes; one Plumbers' Wood Gouge, for same purpose. Shipping weight, 145 pounds.

183T5163—New Tools, as described. Price,\$25.85
183T5168—Used Tools. Temporary charge until returned,20.00

Tool Set for Use With Lead, for Calking Soil Pipe.

Same as above, but has blast furnace, pot and ladle in place of the small trowel. Shipping weight, 150 pounds.

183T5165—New Tools, as described. Price,\$31.35
183T5169—Used Tools. Temporary charge until returned,26.00

Card's Tap Wrench



These wrenches have two steel jaws hardened and tempered. Highly polished.

83T5084—Length, 5 inches. Holds taps from $\frac{1}{4}$ to $\frac{1}{2}$ -inch. Ship. wt., $\frac{1}{4}$ lb. Each,95c

83T5085—Length, 10 inches. Holds taps from $\frac{1}{2}$ to $\frac{3}{4}$ -inch. Ship. wt., $\frac{3}{4}$ lb. Each,1.85

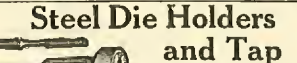
83T5086—Length, 14 inches. Holds taps from $\frac{3}{4}$ to 1-inch. Ship. wt., 2 pounds. Each,\$2.75



Steel Taps

83T5070—Made in sizes to correspond with pipe measurements, that is, a $\frac{1}{4}$ tap will thread a fitting or opening taking pipe measuring $\frac{1}{4}$ -inch inside diameter. Shipping weights range from 2 ounces to 3 $\frac{1}{2}$ pounds each.

Size	Each	Size	Each	Size	Each
$\frac{1}{4}$	44c	$\frac{1}{2}$	\$0.72	1	\$1.40
$\frac{3}{4}$	48c	1	.98	1 $\frac{1}{2}$	1.80
2	60c	2	1.20	3	2.45



Steel Die Holders and Tap For Bit Brace

83T5148—We furnish dies for pump rods $\frac{1}{4}$ -1 $\frac{1}{2}$ inch and 7/16-12 thread. For bolts $\frac{1}{4}$ -16 thread and 7/16-14 thread. All 1/32 over size to take unfinished rods. Made in two sizes only, $\frac{3}{4}$ and 7/16-inch. Ship. wt., 1 $\frac{1}{2}$ pounds.

Size	Die, Tap and Holder	Die only	Tap only
$\frac{3}{4}$	\$1.98	\$1.08	\$0.29
1	2.10	1.12	.30

Steel Monkey Wrench



83T5180—Wrought-iron with wood handle.

Size	Shipping Weight	Each
Inches	Pounds	
8	1 $\frac{1}{4}$	42c
10	1 $\frac{3}{4}$	48c
12	2	58c
15	3 $\frac{1}{4}$	82c

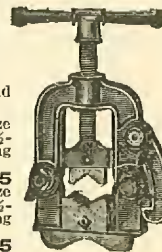
Burring Reamers



83T5072—For pipe $\frac{1}{4}$ to 1-inch. Tapers from $1\frac{1}{4}$ to $\frac{1}{2}$ -inch at point. Length of flute, 1 9/16 inches. Ship. wt., 4 ounces. Each,78c

83T5073—For pipe $\frac{1}{2}$ to 1 $\frac{1}{2}$ inches. Tapers from $1\frac{1}{2}$ -inch to $\frac{1}{2}$ -inch at point. Length of flute, 2 $\frac{1}{4}$ inches. Ship. wt., 6 ounces. Each,98c

Malleable Pipe Vise



Hardened jaws, and a self-locking latch.

183T4514—Size 1; capacity, $\frac{1}{2}$ to 2 $\frac{1}{2}$ -inch pipe. Shipping weight, 12 pounds. Each,\$2.15

183T4515—Size 2; capacity, $\frac{1}{2}$ to 3 $\frac{1}{2}$ -inch pipe. Shipping weight, 15 pounds. Each,\$3.25



Pipe Stock and Dies

Malleable Stock, with solid steel dies. Finely finished. Pipe taps not included.

Leader screws are made only on the No. 2 stock. Not furnished in the smaller stocks.

The dimensions of the dies are as follows: No. 0, 2x2x $\frac{1}{4}$ -inch; No. 1, 2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x $\frac{1}{4}$ -inch; Nos. 1 $\frac{1}{2}$ and 1 $\frac{3}{4}$, 3x3x $\frac{1}{4}$ -inch; No. 2, 4x4x $\frac{1}{4}$ -inch. Shipping weights range from 8 to 24 pounds per set.

83T5100—Stock and Dies Complete.

Size	Cuts Pipe Size, Inches	Per Set
0	$\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1	\$3.98
1	$\frac{1}{2}$, 1, 1 $\frac{1}{2}$, 2	5.25
1 $\frac{1}{2}$	1, 1 $\frac{1}{2}$, 2, 2 $\frac{1}{2}$	4.75
2	1 $\frac{1}{2}$, 2, 2 $\frac{1}{2}$, 3	4.90
		7.00

Extra Dies and Guides

Number of Stock	Sh. Wt. Dies, Each, Ounces	83T5101 Dies, Each	Sh. Wt. Guides, Each, Ounces	83T5102 Guides, Each
0	8	\$0.79	4	\$0.15
1	16	.88	4	.15
1 $\frac{1}{2}$	23	1.11	4	.15
2	25	1.11	5	.15
	36	1.11	5	.15

Always give pipe sizes when ordering extra dies and guides.

Steel Pump Stocks and Dies



Genuine Lightning Pump Makers' Stock and Die. Made 1/32-inch over size to take unfinished rods.

83T5150—Style A. Size of die, $\frac{3}{4}$ x14 thread. Ship. wt., 1 pound. Price,\$1.60

83T5152—Style B. Size of die, $\frac{1}{2}$ x12 thread. Ship. wt., 2 $\frac{1}{4}$ pounds. Price,\$1.80

83T5153—Style C. Size of die, $\frac{1}{2}$ x12 thread. Ship. wt., 2 $\frac{1}{4}$ pounds. Price,\$2.10

83T5154—Extra dies for above stocks. Size, $\frac{3}{4}$ x14 $\frac{1}{2}$ x12 $\frac{1}{2}$ x12. Each,\$1.15 \$1.24 \$1.46

Shipping weight, 4 ounces each. We cannot furnish any other size dies for these stocks.

Steel Pump Stocks and Dies

Genuine Lightning



83T5155—Double Stocks, for cutting steel pump rods. Has one die, $\frac{3}{4}$ x14 thread, and one die $\frac{1}{2}$ x12 thread. Made 1/32-inch over size to take unfinished rods. Ship. wt., 2 $\frac{1}{4}$ pounds. Price,\$2.85

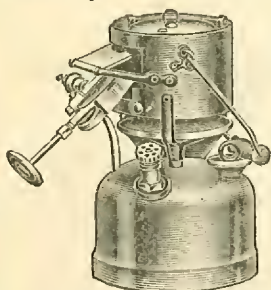
Extra Dies

83T5156—Extra dies for double stocks. Ship. wt., each, 3 ounces. Size, $\frac{3}{4}$ x14 $\frac{1}{2}$ x12. Each,\$1.15 \$1.24

We cannot furnish any other size dies for these stocks.



Every Article on This Page Has Made Good—We Guarantee Each One



Gasoline Furnace

180T822—Has 18-gauge seamless steel tank. Brass burner on a swing joint enables the operator to use flame in any position. Heats lead and soldering coppers at one time. Steel hood removable. Burner not affected by wind. Cap., 3 quarts; height, 12 in.; diam., 8 1/4 in. Ship. wt., 12 lbs. Each\$7.25



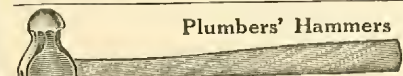
Soldering Copper

80T864—Square point, for tinner's use. Without wood handle. Price subject to market changes. Ship. wts., are 1/4 to 1 lb. above actual wts. Weights given are for one copper.
Wt., each..... 3/4 lb. 1 lb. 1 1/2 lbs. 2 lbs.
Each 54c 70c \$1.02 \$1.35



Soldering Copper Handles

80T865—Made of white wood. With wire ferrules. Length, 5 inches. Weight, 2 ounces. Each.....3c
Per dozen24c



Plumbers' Hammers

85T1565—Lakeside Ball Pein Hammers. Solid forged steel with hickory handle.

Size 00 0 1 2 3 4
Wt. head.....12 oz. 1 lb. 1 1/4 lb. 1 1/2 lb. 1 3/4 lb. 2 lb.
Each 50c 52c 55c 60c 65c 70c



Lakeside Combination Pliers

85T2200—Drop forged from excellent tool steel. Highly polished and nickel plated. Combined gas plier, wire cutter, wrench and screw driver, either large or small pipes, etc.
Length, inches 6 8 10
Ship. wt.10 12 18
Each25c 35c 40c



Gas Pliers

85T2228—Highly tempered joints. Finely polished and finished. Handier than a pipe wrench for loosening or tightening all small gas pipes, nipples, etc.
Length, inches 8 10 12
Ship. weight, ounces14 18 22
Each44c 52c

Steel Bending Springs

83T5633—Keeps lead pipe from kinking when bent. Ship. wt., 4 lbs. Size, in.....1 1/4 1 1/2
Each40c 49c

Wood Gouge

83T5639—For cutting holes for pipes in floor, etc. Tempered steel. Length, 10 inches. Width, 5/8 inches. Ship. wt., 9 ounces. Size, 1/2-inch. Each48c

Packing Iron

83T5635—For packing oakum in soil pipe joints. Made of 3/4-inch octagon steel. Length, 10 inches. Ship. wt., 1 1/2 lbs. Each30c

Bending Pin

83T5632—Made of 1/2-inch round steel. Length, 12 inches. Shipping weight, 10 ounces. Each.....18c

Calking Chisel

83T5634—Made of 3/4-inch octagon steel. Shipping weight, 1 1/4 pounds. Each.....30c

Wood Chisel

83T5638—Tempered steel. Length, 10 inches. Shipping weight, 6 to 16 ounces.
Size, inches 1/2 3/4 1
Each33c 39c 46c

Wardway Soil Pipe Cement



\$1.00

81T5701—For cementing joints in iron soil pipe. Comes in powder form. Mix with water as per directions on can and spread into joint with small trowel, after filling joint about two-thirds full of oakum. Hardens quickly and holds securely.

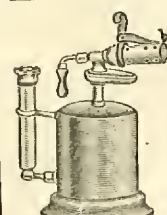
Easy to Apply

Easy to apply in a few minutes. Makes clean, solid joint. Has all the advantages and none of the disadvantages of a calked lead joint. Cans contain 5 lbs., sufficient for about 5 joints on 4-inch soil pipe. Ship. wt., per can, 5 1/2 pounds. Per can.....\$1.00

Joint Cementing Trowel



85T2642—For applying Wardway Soil Pipe Cement into joints, and smoothing it off. Standard Grade Cast Steel. Length, blade, 4 inches. Ship. wt., 6 ounces. Each.....22c



Gasoline Blow Torch

Made of polished brass with special bronze metal burner and improved air pump. Produces a hot blue flame, for soldering, thawing out pipes, etc.

80T802—Cap., 1 pint; height, 7 in. Ship. wt., 3 lbs. Each.....\$3.75
80T803—Cap., 1 qt.; height, 9 in. Ship. wt., 4 lbs. Each.....\$4.10

Plumbers' Oakum



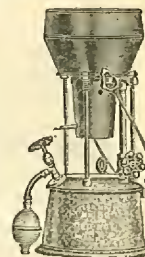
83T5646—Rope Oakum, spun long fibre. For calking iron soil pipe. Oiled, and especially prepared in coils, about 50 pounds to the coil. Per coil\$4.80
Per pound10

Cold Chisel

83T4720—Cast Steel Cold Chisel. Soil pipe can be notched around with this chisel and then be easily broken off. Tempered and ground. Standard grade.
Diameter, body, inches 1/2 3/4 1
Ship. wt., ounces 4 14 24
Each10c 17c 25c

Gasoline Furnace \$4.20

180T820—Malleable iron. Heavy sheet metal tank, with durable rubber bulb and heavy coil burner. Tested and sure to please. Burns 1 pint per hour. Height, over all, 17 3/4 inches; diameter, 8 1/4 inches. Ship. wt., 10 pounds. Each\$4.20



Pouring Ladles



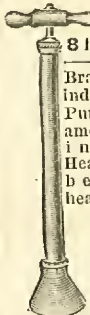
80T860—For melting babbitt metals, lead, etc. Cast bowl. Iron handle, 16 1/2 in. long. Give size.
Diam. 3 in. 4 in. 5 in.
Ship. wt.1 lb. 1 1/2 lbs. 3 lbs.
Each20c 25c 40c

Melting Pot

80T861—Cast iron. For use with our furnace No. 180T820. Height, 3 1/4 inches. Diameter at top, 4 3/4 inches. Shipping weight, 2 1/2 pounds. Each45c



Plumbers' Force Cups



81T6514 Solid Brass Cylinder Force Pump. Diameter, 4 inches. Heavy rubber cup head. For forcing out obstructions in closet bowls, basin and sink traps, etc. Length, closed, 22 inches; extended, 37 inches. Ship. wt., 5 lbs. Each\$1.30



81T6512 Handy Force Pump, with valve, consists of a rubber cup or plunger, diameter, 4 in., with a 3 ft. hard-



wood handle. Used for forcing stoppages from waste or drain pipes. Worth fully 1/2 more. Ship. wt., 1 1/2 lbs. Each45c

Lakeside Pipe Cleaner



81T6516—Keeps outlet passage clear, and prevents clogging up of traps and pipes with hair, etc. Strong, flexible steel coil with wood handle. Follows curves of traps, closet bowls, etc., and cleans out obstructions. Length, 4 1/2 ft. Diam. of coil, about 3/8 in. Ship. wt., 1 lb. Each30c

You Twist • It Cleans

Lead Dresser

83T5622—For shaping and bending lead pipe, sheet lead, etc. Boxwood. Length, 13 inches. Shipping weight, 1 1/4 pounds. Each.....49c

Wood Drift Plugs

83T5626—For spreading ends of lead pipe. Ship. wt., 2 to 4 oz. Diam. in. 1 1/4 1 1/2 1 3/4
Each14c 16c 20c

Tap Borer

83T5630—Steel blade, wood handle. Length, 5 inches. Ship. wt., 6 oz. Each.....26c

Shave Hook



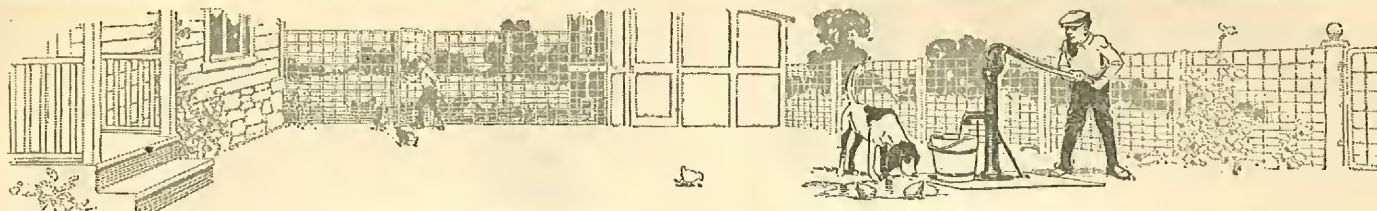
83T5620—Steel blade, hardwood handle. Length, 5 in. For scraping lead before soldering. Ship. wt., 5 ounces. Each.....29c

Wood Turn Pins

83T5624—Used for cupping out lead pipe. Ship. wt., 4 ounces. Diam., in. 2 1/4 2 3/4
Each23c 25c
Diam., in.2 1/2 2 3/4
Each24c 29c

Joint Wiping Cloth

83T5628—Soft ticking. Size, about 3x3 in. Ship. wt., 3 oz. Each9c

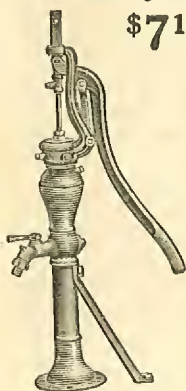


These Pumps Assure Full Satisfaction and Many Years of Service

Heavy Force Pump Stand

\$715

Windmill Top



A strong and compact force pump stand for wells up to 100 feet deep. Can be had with Plain spout with detachable $\frac{3}{4}$ -inch hose connection or with Cock spout as illustrated, tapped at back for $1\frac{1}{4}$ -inch pipe, through which water may be forced any distance to an elevated tank or stock watering trough, etc.

Tapped for $1\frac{1}{4}$, $1\frac{1}{2}$ or 2-inch suction pipe, the size of which depends upon the size of cylinder you intend to use. Give pipe size of tapping wanted.

Prices are for iron pump stand only. For complete outfit, add proper cylinder and enough pipe and pump rod according to the depth of your well. Shipping weights, 65 to 76 lbs.

Shipped from Factory in Eastern Illinois.

With Cock Spout

283T5860—With 6-inch stroke. Each.....\$7.15
283T5861—With 10-inch stroke. Each.....7.60

With Plain Spout

283T5858—With 6-inch stroke. Each.....\$5.80
283T5859—With 10-inch stroke. Each.....6.30

Force Pump with Cylinder

Windmill Top

Anti-freezing. Substantially built and has 6-inch stroke. Suitable for wells up to 30 feet deep. Complete, ready to be installed.

Back of spout is tapped for $1\frac{1}{4}$ -inch pipe, through which, with the cock spout closed, water may be forced any distance to an elevated tank, etc. Spout has a $\frac{3}{4}$ -inch hose coupling.

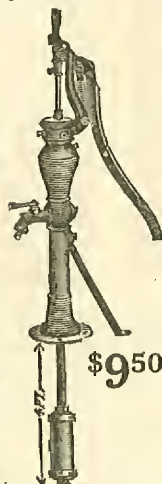
Prices below are for iron pump with 4-foot set length and iron cylinder. Pipe for extending into well is extra, depending on the depth of your well. Shipping weights, 85 to 90 pounds.

183T5828—With 2 $\frac{1}{2}$ -inch cylinder, for 1 $\frac{1}{4}$ -inch pipe. Each.....\$9.50

183T5829—With 3-inch cylinder, for 1 $\frac{1}{2}$ -inch pipe. Each.....\$9.65

183T5830—With 3 $\frac{1}{2}$ -inch cylinder, for 1 $\frac{1}{2}$ -inch pipe. Each.....\$10.20

183T5831—With 4-inch cylinder, for 2-inch pipe. Each.....\$11.35



\$950

Force Pump with Cylinder

\$645

Windmill Top



Hand Force Pump of heavy design with air chamber and 4-foot set length. Made of cast iron and built to withstand very hard usage. For wells not more than 30 feet deep. Spout is fitted with $\frac{3}{4}$ -inch hose coupling and tapped on the back for $1\frac{1}{4}$ -inch pipe through which, after plugging the spout with a disc of leather, water may be forced to an elevated tank.

Shipped with iron cylinder attached as in illustration. Simply connect sufficient iron pipe to reach into the water and the pump is ready for service.

Shipping weights, 80 to 95 pounds.
183T5810—With 2 $\frac{3}{4}$ -inch cylinder for 1 $\frac{1}{4}$ -inch pipe. Each.....\$6.45
183T5811—With 3-inch cylinder for 1 $\frac{1}{2}$ -inch pipe. Each.....\$6.50
183T5812—With 3 $\frac{1}{2}$ -inch cylinder for 1 $\frac{1}{2}$ -inch pipe. Each.....\$6.35
183T5813—With 4-inch cylinder for 2-inch pipe. Each.....\$10.80

Easy Acting Force Pump Stand

\$660

Windmill Top

Force Pump Standard with Long oscillating Fulcrum link, pivoted at base, to relieve the cap from strain, reduce friction and make the pump much easier to work. Suitable for wells up to 100 feet deep. Spout has $\frac{3}{4}$ -inch hose attachment. Tapped at the back for $1\frac{1}{4}$ -inch pipe through which water may be forced to distant points. Place leather disc in hose coupling to close the spout outlet.

Tapped for $1\frac{1}{4}$, $1\frac{1}{2}$ or 2-inch suction pipe, the size of which and the length of the stroke depends upon the size of cylinder you intend to use. Give pipe size of tapping wanted.

Prices are for iron pump standard only. For complete outfit add proper cylinder and pipe according to the depth of your well. Shipping weights, 66 and 75 pounds.

183T5854—With 6-inch stroke. Each.....\$6.60

183T5856—With 10-inch stroke. Each.....\$7.10

Pump Spout Attachment

To hang over the spout of lift pumps for conveying water to a nearby trough, etc. Cast iron, japanned. Shipping wt., about 4 pounds.

83T5890—Tapped for 1 $\frac{1}{2}$ -inch iron pipe. Each.....\$3.50

83T5891—Tapped for 1 $\frac{1}{2}$ -inch iron pipe. Each.....\$3.80

Iron Pump Supports

Heavy cast iron, with slots for bolts. Holds pump rigid to the pipe or casing. Weights, 22 and 24 pounds.

183T6060—For Standard Pipe. Inside diameter 4-in. 5-in. 6-in. Each.....\$1.70 \$2.10 \$2.40

183T6061—For Well Casing. Inside diameter 4 $\frac{1}{2}$ -in. 5-in. 5 $\frac{1}{2}$ -in. Each.....\$1.70 \$2.10 \$2.40

Enterprise Float Valve

83T6022—Japanned iron with leather valve and brass seat. Used with copper float to control the water flow in stock tanks, cisterns, etc.

Size, inches..... $\frac{3}{4}$ 1 1 $\frac{1}{4}$
Ship. wt., lbs.....2 2 $\frac{1}{2}$ 3
Each.....97c \$1.10 \$1.18

Iron Float Valve

83T6020—For Windmill Tanks. Used with a copper float to regulate the flow. Japanned iron, with leather valve.

Size, inches..... $\frac{3}{4}$ 1 1 $\frac{1}{4}$
Ship. wt., lbs.....2 2 $\frac{1}{2}$ 3
Each.....62c 55c 70c

Copper Float

83T6024—Can be attached to a lever on the tank valve, to open and close automatically. Size, about 9 $\frac{1}{2}$ x 3 inches. Ship. wt., 4 pounds. Each.....\$1.20

83T6025—Can be attached to a lever on the tank valve, to open and close automatically. Size, about 9 $\frac{1}{2}$ x 3 inches. Ship. wt., 4 pounds. Each.....\$1.20

83T6026—Can be attached to a lever on the tank valve, to open and close automatically. Size, about 9 $\frac{1}{2}$ x 3 inches. Ship. wt., 4 pounds. Each.....\$1.20

Lift Pump Stand

Windmill Top

\$510

Strongly constructed Lift pump standard of neat design. For use in connection with a windmill or pump jack and for wells up to 100 feet deep. Cannot be used as a force pump, but water may be conveyed from the spout to stock watering trough or other distant point by using our pump spout attachment (83T5890 listed on this page) and sufficient pipe to connect with tank to be filled. As the water flows by gravity the discharge pipe must be lower than the pump spout at all points.

Tapped for $1\frac{1}{4}$, $1\frac{1}{2}$ or 2-inch pipe, the size of which will depend upon the size of cylinder you intend to use. Give size of tapping wanted.

Prices below are for pump standard only. For complete outfit add proper cylinder and sufficient pipe and pump rod, according to the depth of your well. Shipping weight, 60 pounds.

Shipped from Factory in Eastern Illinois.

283T5842—With 6-inch stroke. Each....\$5.10
283T5843—With 10-inch stroke. Each....5.60

Lift Pump with Cylinder

Plain Top



\$525

Medium weight Anti-freezing Lift pump. Has adjustable handle and 4-foot set length. For wells up to 30 feet deep. This pump cannot be used where it is desired to force water to elevated tanks or to distant points. But, if used in connection with our pump spout attachment (83T5890-5891) shown on this page, water may be conveyed by pipe to stock watering troughs, provided there is a slight incline all the way between the pump spout and the trough.

Furnished with iron cylinder, wrought set length and steel pump rod. Tapped for $1\frac{1}{4}$ -inch suction pipe. Stroke, 6 inches.

Will be found to answer all general purposes where a force pump is not necessary or where it is not desired to make connection with windmill or pump jack. Shipping weight, 55 pounds.

183T5800—With 3-inch cylinder. Each.....\$5.25

Lift Pump with Cylinder

Plain Top

\$545

Heavy pattern cast iron Anti-freezing Lift pump. For use where water is not more than 30 feet below the surface of the ground. An excellent, easy working hand pump. For conveying to nearby trough, use our Spout Attachment.

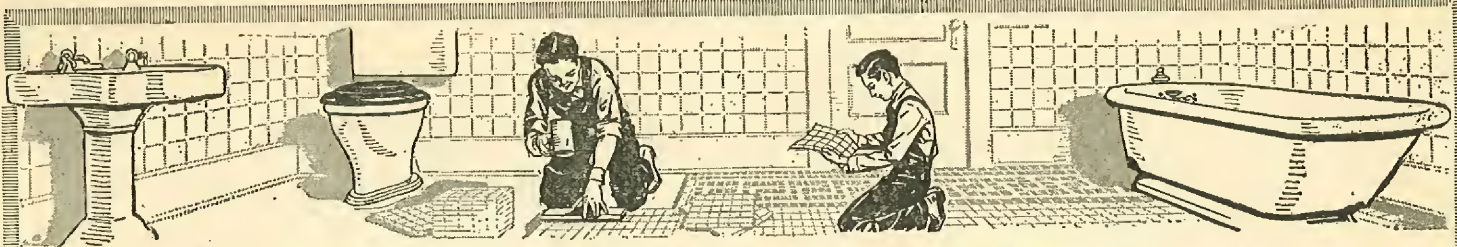
Prices are for pump stand with iron cylinder and 4-foot set length. For complete outfit add sufficient pipe, according to the depth of your well.

Shipping weight, 60 to 75 pounds.

183T5805—With 3-in. cylinder for 1 $\frac{1}{4}$ -inch pipe. Each.....\$5.45

183T5806—With 3 $\frac{1}{2}$ -inch cylinder for 1 $\frac{1}{2}$ -inch pipe. Each.....\$6.05





Cleanliness Demands This Beautiful Bathroom Tile

Floor Tile is indispensable for the bathroom, and is ideal for kitchen, porch and vestibule. In hotels, hospitals and large public buildings, where cleanliness is essential, Tile Flooring is almost always specified.

How to Figure Floor Tile. If floor is square, with no offsets, figure the square feet of surface and allow a foot or two for cutting. If irregular in shape, send rough sketch, and we will quote you price.

A sketch giving measurements must always be sent with order so amount of border can be determined.

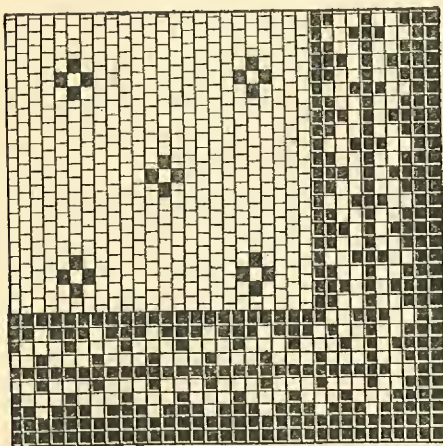
Shipping weight. Tile Flooring, packed for shipment, weighs about $3\frac{1}{2}$ pounds per square foot. All tile mounted on paper in the patterns shown, ready to lay.

Set the rough wood floor about $2\frac{1}{2}$ inches below surface of floor joists or supports. Fill space between joists with concrete mixed in these proportions: One part cement, two parts sharp sand and two parts gravel. Level up with top of floor joists and lay furring strips, one inch thick by two inches wide, levelling them up by means of spirit level. Between these strips spread a mixture consisting of one part cement, two parts of sand and a very little slacked lime. Now lay tile, paper side up. Start at one corner and lay border first, working from corners to middle. As each part of floor is laid, beat it into cement with a block and hammer until mixture is visible between

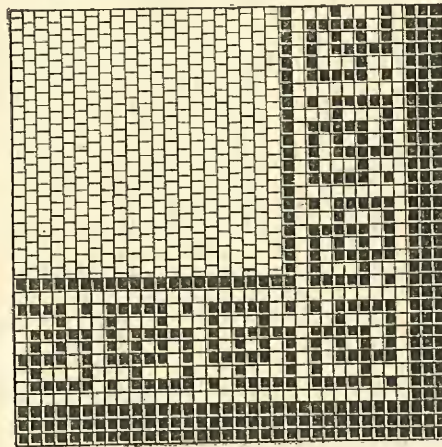
joints. Then moisten paper and peel off carefully, after which see that every part is level before cement sets. Allow floor to set for about two hours, then fill joints with a thin mixture of pure cement, wiping off with flannel cloth. Let floor stand a day or two and then rub with sharp sand and a piece of soft lumber.

Pure White Floor Tile	
278T2167— $\frac{3}{4}$ -inch White Squares, per square foot.....	\$0.19
278T2168—1-inch White Hexagons, per square foot .....	.20
278T2169— $1\frac{1}{4}$ -inch White Hexagons, per square foot.....	.21

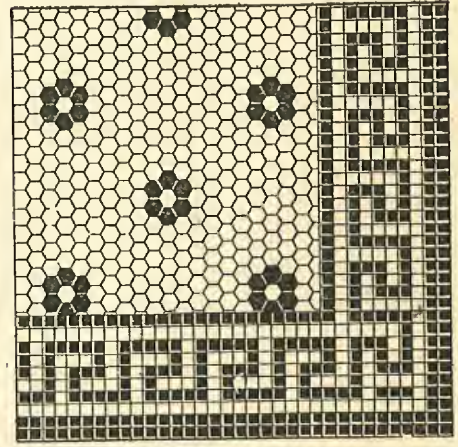
Mosaic Floor Tile



278T2170 Red and White. Per square foot 23c
278T2171 Black and White. Per square foot 23c
278T2172 Blue and White. Per square foot 24c



278T2174 Red and White. Per square foot 23c
278T2175 Black and White. Per square foot 23c
278T2176 Blue and White. Per square foot 25c



278T2178 Red and White. Per square foot 24c
278T2179 Black and White. Per square foot 24c
278T2180 Blue and White. Per square foot 26c

Shipped from Factory in West Virginia.

White Enameled Wall Tile

Clean—Sanitary

At the prices quoted below, a completely tiled bathroom or kitchen is a possibility in every home.

Furnished in standard sizes, 6x3 inches (as shown in picture at the right), 6x2 inches (to the left), also 6x6 inches, 3x3 inches, 6x1 $\frac{1}{2}$ inches and 4x2 inches. Picture at the right shows Wall Tile No. 278T2182, size 6x3 inches, with Base No. 278T2184, size 6x6 inches, and cap No. 278T2185, size 6x1 $\frac{1}{2}$ inches. Picture at left shows Wall Tile No. 278T2182, size 6x2 inches. A corner that projects into a room is called an outside corner. Add one outside corner for each row of tiling. Any combination of base and cap may be used with any standard sizes of Wall Tile, 278T2182.

Prices

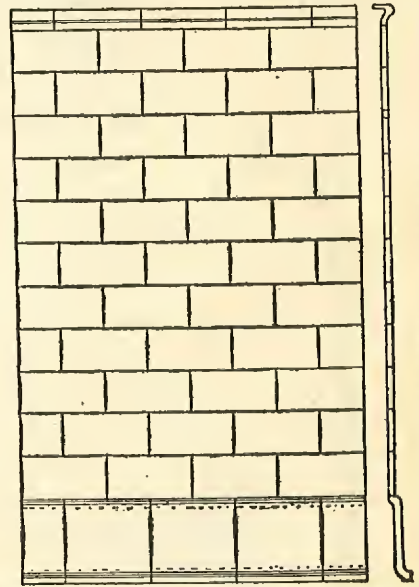
278T2182—Wall Tile, White Enameled, in any of the standard sizes listed above. Per square foot.....	31c
278T2184—Base, size, 6x6 inches. Per lineal foot..	46c
278T2185—Cap, size, 6x1 $\frac{1}{2}$ inches. Per lineal foot..	19c
278T2181—Outside Corners, same width of tile and cap. Each	15c
278T2183—Outside Corners, same width of base. Each..	36c
278T2186—Inside Corners, Base Tile. Each.....	36c

Shipping weight, per square foot, about 5 pounds.

Shipped from factory in West Virginia.

Important: Send for our estimate on Wall Tile. We recommend that you send us a rough pen or pencil sketch of the room, showing doors, windows and other offsets, and the complete measurements, and tell us the size tile and the kind of base and cap you have selected from this page. We will then figure the cost for you complete.

Send for our estimate today.





Why Not Install a System That Will Always Keep Your Home Clean?

Victor Power-Driven Vacuum Cleaners Clean Floors, Walls, Rugs and Furniture

WHEN you make improvements in your home, why not install a perpetual cleaning system as a very part of it, just like you would install a heating or plumbing system? Victor Power-Driven Vacuum Cleaners are rapidly coming into use by persons who desire the most modern labor, time and money-saving improvements in their homes.

With a Victor outfit the lady of the house never has to have a big general housecleaning, because her walls, floors, rugs, furniture, etc. are vacuum cleaned by power as often as she desires, with hardly any effort on her part. It means cleanliness and tidiness in the home at all times—and health and happiness too.

Saves Work and Time

Vacuum Cleaners clean easier, quicker, and more thoroughly than brooms or sweepers. Even with the hand operated machine, the floors, the rugs, the furniture, the walls, the hangings, and even clothing, are cleaned as never before, with an ease and speed that is almost magical. No more backbreaking drudgery in housecleaning—the machine does all the hard work. It is unnecessary to move the heavy furniture around, as nozzles are furnished that get into the most inaccessible corners.

Power Machines, of course, reduce the work to a minimum. All that is necessary to make the connections and guide the nozzle. Many requests for an inexpensive machine that can be run by any sort of power have come to us, and in response we are offering the Victor. It will give excellent service and the price is only about one-half of what is usually charged at retail for a Power Machine.

The Victor does such superior work, saves the housewife so much in labor, health, time, and wear and tear on the furnishings, that you really owe it to her to get one. Considering that the machine costs only 3 or 4 cents an hour to run, and that the price should be divided over a number of years, you will see that it pays for itself in time saved, while it cleans incomparably better than can be done in the old way.

Preserves Health

Whenever ordinary sweeping is done, dust and germs are scattered.

Specifications and Prices

Article Number.....	236T455	236T456
Size.....	Number 1	Number 2
Floor Space.....	13x26 inches	22x52 inches
Height.....	40 inches	49 inches
Shipping weight, about.....	190 pounds	380 pounds
Standard pulley furnished.....	5x2 inch face	9x3 inch face
Revolutions per minute.....	1,700	850
Air Passed per minute.....	40 cubic feet	80 cubic feet
Minimum power required.....	1/4 horsepower	1 1/2 horsepower
Price.....	\$88.50	\$142.00

Shipped from factory in Eastern Illinois.

Note—Important

If you already have an engine, be sure to give the speed, also diameter and width of pulley, also width of fly wheel. We will then fit the Cleaner with a pulley of suitable size to obtain the required speed.

Suction Hose

236T457—Heavy Rubber Suction Hose, inside diameter, 1 1/2 inches. Wire insertion. Used especially on portable outfits for leading from dirt tank to the lighter silkolene-covered vacuum hose used in the building (of which we supply a 30-foot section with the Cleaner). Weight, per foot, about 1 pound. Price, per foot..... **32c**

236T458—Green Silkolene Braid-Covered 1-inch Suction Hose, same as comes with machine. Both ends fitted with taper nipples. Weight, per foot, about 1/4 pound. Price, per foot..... **31c**

Curry Comb Tool Attachment

236T459—Removes dirt and insects from horses, cows, etc., without injury to animal. Weight, 1/4 pound. Each..... **92c**

Shipped from factory in Eastern Illinois.

Pipe and Fittings

The pipe and fittings used in the picture on the left can also be obtained from us. If you cannot determine just what pipe and fittings you need, we will gladly give you the information and prices if you will send us a sketch of each floor and basement, showing location, size, and height of rooms and basement, also thickness of floors. Machines are easy to install.

Belting

Order the belting, if you need it, from our large General Catalogue. Use 1 1/2-inch leather belt for Size Number 1, and 2-inch leather belt for Number 2. If likely to be exposed to the weather or used in a damp place, we recommend rubber or stitched canvas belting.

Engines

If you want a gasoline engine for use with the Victor Cleaner, order our 1 1/2 horsepower Racine-Sattley engine for Size Number 1, or our 2 1/2 horsepower for Size Number 2. Descriptions of these will be found in our Big Catalogue.

Important—If you order an engine from us, we will furnish the proper size pulley on the Cleaner to give the required speed. If you already have an engine, be sure to give the following information: Speed, diameter and width of pulley; diameter and width of fly wheel.

Motors for Electric Current

Write for price on motor if you have electricity. Be sure to give the following information: Size of Cleaner for which motor is wanted; Voltage of your electric circuit; whether Direct or Alternating Current; Number of Phases and Cycles per second, if alternating current. You can get this information from your electric company.

Start a Profitable Business

Some of our customers have established a well-paying cleaning business in small towns with these machines. It can be put on a small truck with the engine, as illustrated, and is then easily moved wherever wanted.

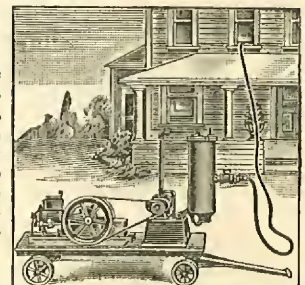
Send for Special 14-Page Booklet describing our Victor Cleaning Machine. Booklet is sent postpaid on request.

What One Customer Wrote

Gentlemen: Your "Size 1" Cleaner does the work all right and we are more than pleased with it. Every one who sees it thinks it is grand. My wife wouldn't be without it for twice the cost, as she can start the gasoline engine and sweep any time. It is surprising how much dirt it will get out of a house the first time.

Yours very truly,

Name and address on request.



The above picture shows the way most people install their Victor Cleaner. Simple, inexpensive, and out of the way. Requires regular 1 1/2-inch pipe and 1 1/2-inch, 90 degree drainage type Tee Y's as elbows or tees. These fittings maintain a desirable uniform diameter throughout the vacuum system. If desired the vacuum pipe may simply be run through the first floor and a flush floor inlet attached to the end of the pipe. This simple installation is especially adapted to one-story houses. In higher houses it would, of course, take a long hose to reach rooms on the upper floors, and it is by far the better plan to install the pipe, as illustrated.

How to be Shipped

Our general Catalogue gives valuable information about the best way to ship goods.

Mark X in space below to show how you want goods sent.

<input type="checkbox"/> Parcel Post	If you order goods to be sent by mail, please enclose postage.
<input type="checkbox"/> Express	Exp. Co.
<input type="checkbox"/> Freight	R. R. Co.

If there is no freight agent at your shipping point, it will be necessary for you to send money to prepay the freight charges. If there is an agent, you can pay the freight when the shipment reaches you. It is only necessary to prepay when there is no agent at your station. The charges are the same.

All Members of One Family Should Order under One Name
Mrs., Miss or Mr. First Name Middle Initial Last Name

Post Office

R. F. D. No.

State

P. O. Box No.

Street and No.

Shipping Point

County

Date of This Order

Amount of Money Enclosed
\$ Cts.

191

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5			Sizes, Colors, Etc.					
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NOTE: When ordering goods to be shipped by freight, please remember that the charges on a shipment of 10 pounds are seldom less than for 100 pounds, therefore you can make the greatest saving by adding enough staple necessities to make the shipment 100 pounds or more.

Have You Filled Out Our Plumbing Estimate Blank?

The above Order Blank is for such individual merchandise that requires no estimating, such as bath stools, towel bars, pumps, etc. Please put a cross in the squares below, so that we may be able to serve you more easily and intelligently.

Complete plumbing systems and water supply systems require, in most cases, estimating for the necessary pipe, fixtures and fittings, which vary because of different geographical conditions, etc.

For this purpose we have enclosed in this Catalogue a plumbing estimate blank. Our plumbing engineers and estimators are ready to solve, free of charge, your own plumbing problem and give you an estimate for a complete system exactly suited for your own needs. All you need to do is to fill out the estimate blank and send it to us.

Are you enclosing the plumbing estimate blank, properly filled out for a plumbing estimate? Yes ☐ No ☐

Did you find the estimate blank bound in center of this Catalogue? If not, we will send you one immediately. Yes ☐ No ☐

Name

Town R. F. D.

St. No.

State

Invoice Number

Cash

INDEX

Where to Find—What You Need

A	
Accessories, Bathroom...	50
Adjustable Closet Bends...	54
Air Pump...	24
Angle Valve, Brass...	56
Asbestos Soil Pipe Joint	
Runner...	60
Attachment, Pump Spout...	61
Attic Tanks...	25
Automatic Cesspool	
Syphons...	52

B	
Ball Cocks, Closet Tank...	49
Balls, Fuller...	57
Bars, Towel...	51
Basin Cocks, Fuller...	57
Basin Supply Pipes...	57
Bath Brush...	37
Bath Crock...	57
Bath Fixture Sets...	50
Bath Mat...	51
Bathrobe Hook...	50
Bathroom Accessories...	50
Bathroom Closets...	38-39
Bathroom Furnishings...	29-32
Bathroom Lavatories...	40-42
Bathroom Mirrors...	51
Bath Overflow Strainer...	57
Bathroom Outfits...	29-32
Bath Rug...	51
Bath Seats...	51
Bath Showers...	37
Bath Sponges...	37
Bath Sponges, Rubber...	37
Bath Sprays...	37
Bath Spray Brush...	37
Bath Stool...	51
Bathroom Tile...	62
Bath Traps...	52
Bell Trap Cesspool...	52
Bath Tubs...	36, 37
Bath Tub Seats...	37
Bath Tub Soap Dish...	51
Bath Tub Sponge Holder...	51
Bath Tubs, Tin...	37
Bathroom Wash Bowls...	40-42

Bath Waste and Overflow...	57
Bath Waste Plug...	57
Bend, Adjustable Closet...	54
Bend, Eighth...	53
Bending Pin...	60
Bend, Quarter...	53
Bends, Return...	55
Bend, Sixth...	53
Bending Springs...	60
Bibbs, Plain...	56
Bibbs, Self-Closing...	56
Blow Torch, Gasoline...	60
Boilers, Range...	46
Bowl, Hopper Closet...	49
Branch Tee...	54
Branch, Ventilating...	54
Branch Y...	53, 54
Brass Valves...	56
Brush, Bath Spray...	37
Burring Reamers...	59
Bushings...	55

C	
Calking Chisel...	60
Caps, Pipe...	55
Caps, Ventilating...	53
Casing, Well...	58
Cast Iron Bath Tubs...	36
Cast Iron Drainage	
Fittings...	54
Cast Iron Pipe Fittings...	55
Cast Iron Soil Pipe and	
Fittings...	53
Cast Iron Traps...	52, 54
Ceiling Plates...	55
Check Valves...	56
Cistern Tank...	25
Clamps, Hydrant...	56
Cleaner, Pipe...	60
Cleaner, Vacuum...	63
Clean-Out Plug...	54
Clean-Out Y Branch...	54
Closet Ball Cocks...	49
Closet Bends, Adjustable...	54
Closets, Frostproof...	48
Closets, High Tank...	48
Closet Hopper...	49
Closet Seats...	49
Closets, Chemical...	1
Closets, Silent...	38
Closet Supplies...	49
Closets, Syphon Jet...	38
Closets, Water...	38, 39
Closet Tanks...	49
Closets, Water...	38, 39
Cloth, Wiping...	60
Cock Hole Covers...	57
Cocks, Sill...	56
Cold Chisels...	60
Combination Pliers...	59
Compression Bibbs...	56
Coppers, Soldering...	60
Copper Valve, Float...	61
Copper Float Valve...	61
Couplings, Pipe...	55

Couplings, Reducing...	55
Covers, Cock Hole...	57
Cross, Drainage...	54
Cross, Reducing...	54
Crosses, Sanitary...	53
Cup, Soap...	50

D	
Die and Holders, Steel...	59
Die Stocks...	59
Dish, Wall Soap...	50
Double Bath Cock...	57
Double Hubs...	53
Double Hub Soil Pipe...	53
Drop Fittings...	55
Drainage Fittings, Cast	
Iron...	54

E	
Eighth Bend...	53
Elbows, 45-Degree...	55
Elbows, Street...	53
Elevated Ball Cock...	49
Ell, Twin...	54
Ell, 45-Degree...	54
Enamel, White...	51
Enterprise Float Valve...	61
Extension Elbow, Rubber...	57

F	
Faucets...	47, 56
Ferrules...	52
Fittings, Drop...	55
Flange Unions...	49
Float Valve, Closet Tank...	61
Float Valve, Water Tank...	61
Floor Plates...	55
Floor Tile...	62
Force Pumps...	60, 61
Frost-proof Closets...	48
Fuller Balls...	57
Fuller Basin Cock...	57
Fuller Basin Bibbs...	56

G	
Gas Water Heaters...	48
Gas Pliers...	60
Gasoline Torches...	60
Gate Valves, Brass...	56
Gauge, Water...	24
Gouge, Wood...	60
Glass Shelves...	51
Globe Valves, Brass...	56

H	
Half "S" Trap...	53
Heaters, Water...	46
Heavy Force Pump...	61
High Tank Closets...	48
Hinged Covers...	25
Holders, Sponge...	50, 51
Holder, Tumbler...	50
Holder, Tooth Brush and	
Tumbler...	50
Holder, Tumbler and	
Soap Dish...	50
Holder, Whisk Broom...	50
Hook, Bathrobe...	50
Hopper Closet...	49
Horizontal Check Valves...	56
Horizontal Clamping Valves...	56
Hydrant Clamps...	56

I	
Increases, Cast Iron...	53
Increases, Tapped...	54
Iron Float Valve...	61
Iron Pump Supports...	61
Ideal Waste...	57

J	
Jack, Pumping...	25
Joint Cementing Trowel...	60
Joint Runner, Asbestos...	60

K	
Kerosene Water Heater...	46
Kitchen Fixtures...	33, 34
Kitchen Sinks...	43-45

L	
Ladles, Pouring...	60
Laundry, Complete...	35
Laundry Outfit...	35
Laundry Tubs...	47
Laundry Tub Bibs...	56
Laundry Tub Faucets...	47
Laundry Tub Traps...	47
Lavatories...	40-42
Lavatory Waste...	57
Lead Dresser...	60
Lead, Sheet...	52
Lead "S" Traps...	52
Lift Pumps...	61
Lock Nuts...	55
Long Nipples...	55

M	
Mahogany Closet Seat...	49
Malleable Fittings...	55
Malleable Pipe Vise...	59
Mat, Bathroom...	51
Match Safe...	50
Melting Pot...	60
Mirrors...	51
Mirrors, Bathroom...	51
Monkey Wrench...	59

N	
Nickel-plated Pipe...	57
Nipples, Pipe...	55
Nuts, Lock...	55

O	
Oak Closet Seat...	49
Oakum, Plumbers...	60
Offsets, Soil Pipe...	53
Outfits, Bathroom...	29-32
Outfits, Kitchen...	33, 34
Outfit, Laundry...	35
Overflow and Bath Waste	
Overflow Strainer, Bath...	57

P	
"P" Traps...	52, 57
Paper Holder, Toilet...	50
Paper, Toilet...	39
Pig Lead...	52
Pipe Cement, Wardway	
Calking...	60
Pipe Cleaner...	60
Pipe Dies...	59
Pipe Hydrants...	24
Pipe, Nickel-plated...	57
Pipe, Soil...	63
Pipe Stock and Dies...	59
Pipe Taps, Steel...	59
Pipe Vise...	59
Pipe, Wrought...	68
Plain Basin P Trap...	57
Plain Bibbs, Fuller...	56
Plain Compression Bibbs...	56
Plates, Roof...	53
Pliers, Gas...	60
Plug, Cleanout...	54
Plugs, Pipe...	55
Plugs, Sink...	52
Plugs, Waste...	56
Plumbers' Force Pump...	60
Plumbers' Oakum...	52
Plumbers' Tools...	59, 60
Plumbers' Torches...	60
Plumbers' Prepared Soil...	52
Plumbers' Solder...	52
Plumbing Outfits...	14-17
Pneumatic Tanks...	24
Pneumatic Tank Supplies...	24
Pot, Melting...	60
Pouring Ladles...	60

Prepared Soil, Plumbers'...	52
Pump, Air...	24
Pump Stand...	61
Pump Spout Attachment...	61
Pump Supports...	61
Pumps, Water...	61
Pumping Jack...	25

Q	
Quarter Bend...	53

R	
Range Boilers...	46
Range Boiler Heaters...	46
Reamers, Burring...	59
Reducing Couplings...	55
Reducing Cross...	54
Reducing Tee...	54, 55
Reducing Y...	54
Rest, Soil Pipe...	53
Return Bends...	55
Robe Hook...	50
Roof Plates, Cast Iron...	53
Round Storage Tank...	25
Rubber Ball Float Valve...	49
Rubber Bath Sponges...	37
Rubber Extension Elbow...	57
Rug, Bath...	51
Running Trap...	53

S	
"S" Trap with Vent...	54
Safe, Match...	50
Sanitary Cross...	53
Sanitary Crosses, Tapped...	53
Sanitary T Branch...	53
Scrubbing Sticks...	44
Seats, Bath Tub...	37
Seats, Closet...	49
Self-Closing Basin Cock...	57
Self-Closing Bibbs...	56
Sets, Bath Fixture...	50
Sewer Pipe...	53
Sheet Lead...	52
Shelves, Glass...	51
Short Nipples...	55
Showers, Bath...	37
Sill Cocks...	56
Single Hub Soil Pipe...	53
Sinks, Kitchen...	43-45
Sink Couplings...	52
Sinks, Enameled...	43-45
Sink Plugs...	52
Sixth Bend...	53
Slop Sinks...	44
Soap and Brush Tray...	50
Soap Cup...	50
Soap Dish and Sponge	
Holder...	51
Soap Stand...	50
Soil Pipe...	53
Soil Pipe Offsets...	53
Soil Pipe Rest...	53
Solder, Plumbers'...	52
Soldering Coppers...	60
Sponges...	37
Square End Steel Tanks...	25
Standard Pipe...	58
Standard Pipe and Well	
Casing...	58
Steel Bending Springs...	60
Steel Die and Holders...	59
Steel Monkey Wrench...	59
Steel Pipe Taps...	59
Stocks, Die...	59
Stock Tanks...	25
Stool, Bath...	51
Stop Cocks, Brass...	58
Street Elbows...	55
Supply Pipes, Basin...	57
Supply Pipe, Lead...	52
Supply Systems, Water...	19-23
Supports, Iron Pump...	61
Swing Valves, Horizontal...	56
Systems, Water Supply...	19-23

T	
"T" Branch...	53
"T" Branch, Sanitary...	53
"T" Branch, Tapped...	53
Tanks, Attic...	25
Tanks, Closet...	49
Tanks, Pneumatic...	24
Tanks, Stock...	25
Tanks, Water...	25
Tap Borer...	60
Tapped Increases...	54
Tapped Sanitary Crosses...	54
Tap "T" Branch...	53
Tap Wrench...	59
Tee Branch...	54
Tee, Reducing...	54
Three-Quarter "S" Trap...	54
Three Way Cock, Brass...	58
Tile, Bathroom...	62
Tile, Floor...	62
Tin Bath Tub...	37
Toilet Paper Holder...	50
Toilet Paper...	39
Tools, Plumbers'...	59
Torches, Gasoline...	60
Towel Bars...	51
Tooth Brush Holder, Wall...	50
Towel Rings, Wall...	50
Traps, Bath...	52
Trap, Half "S"...	54
Traps, Laundry Tub...	47
Trap, Running...	53
Trap, Vented...	57
Traps, "S"...	52
Tray, Soap and Brush...	50
Tubs, Laundry...	47
Tubs, Stationary Wash...	47
Tubs, Bath...	36, 37
Tumbler Holder...	50
Tumbler Holder and Soap	
Dish...	54
Twin Ell...	50

U	
Unions, Brass Soldering...	55
Unions, Flange...	55
Unions, Pipe...	55
Urinal...	48

V	
Vacuum Cleaner...	63
Valves and Faucets...	56
Valves, Water Relief...	24
Vented Basin P Trap...	57
Vented Trap...	57
Ventilating Branch...	54
Ventilating Caps...	53
Vise, Pipe...	59

W	
Wall Match Safe...	50
Wall Rings, Towel...	50
Wall Soap Dish...	50
Wall Soap Dish and	
Tumbler Holder...	50
Wall Tile...	62
Wall Tooth Brush Holder...	50
Wardway Soil Pipe	
Cement...	60
Wash Basins, Bathroom...	40-42
Waste, Ideal...	57
Waste Pipe, Lead...	52
Waste Plug, Bath...	57
Water Closets...	38, 39
Water Gauges...	24
Water Heaters...	46
Water Relief Valve...	24
Water Supply Systems...	19-23
Water System, Electric...	21
Water Systems, Engine	
Driven...	22, 23
Water Systems, Hand	
Driven...	19
Water System, Windmill	
Driven...	20
Water Tanks...	25
Well Casing...	50
Whisk Broom Holder...	39
White Closets, Complete...	49
White Closet Seat...	51
White Tub Enamel...	60
Wiping Cloth...	60
Wood Drift Plug...	60
Wood Gouge...	60
Wood Turn Pin...	60

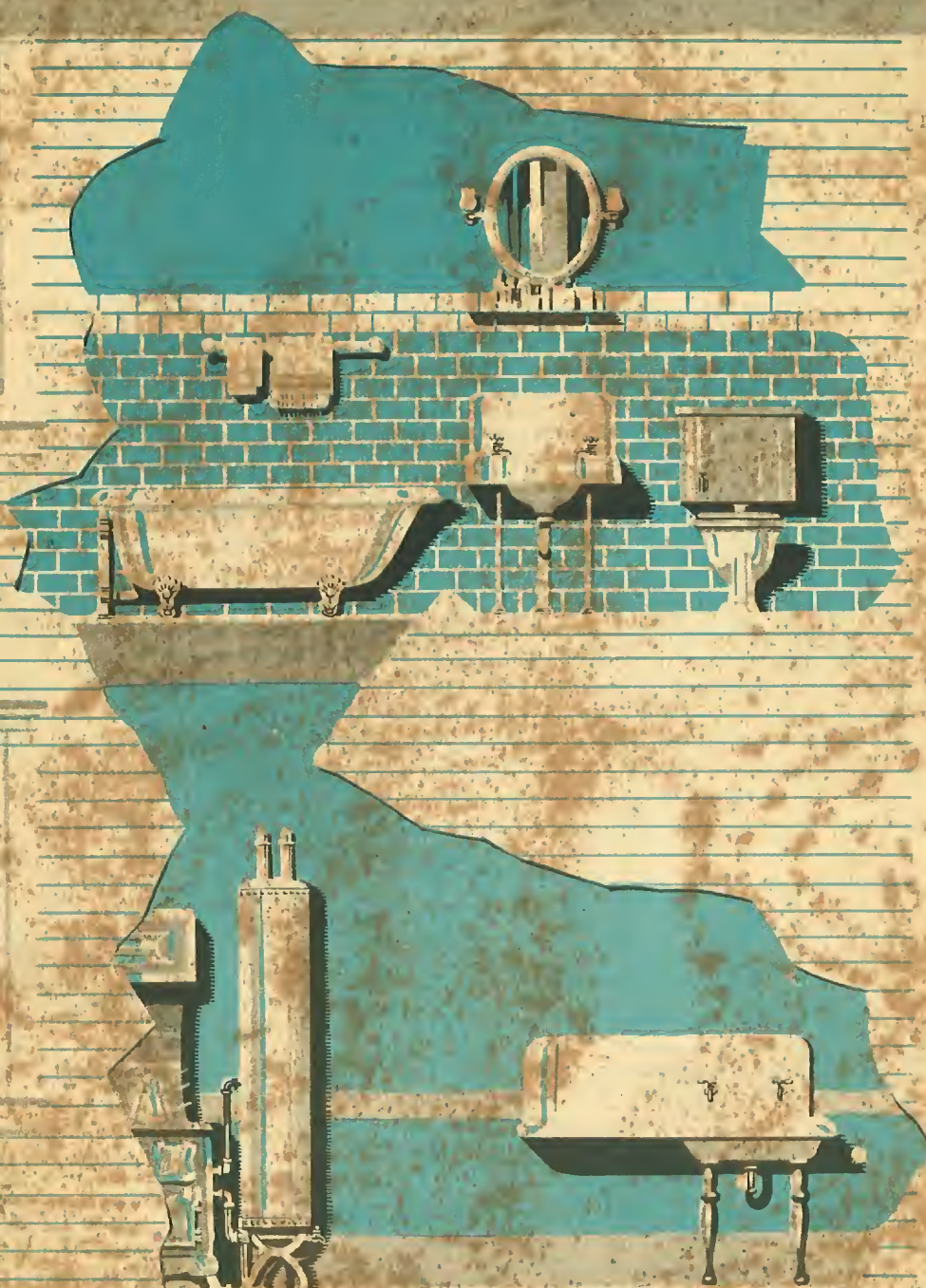
Y	
"Y" Branch...	54
"Y" Branch, Clean-out...	54
Yarning Iron...	60
Yoke Bath Spray...	37

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